CDX-C610/C610RDS

SERVICE MANUAL

US Model
Canadian Model
CDX-C610

AEP Model
UK Model
CDX-C610RDS

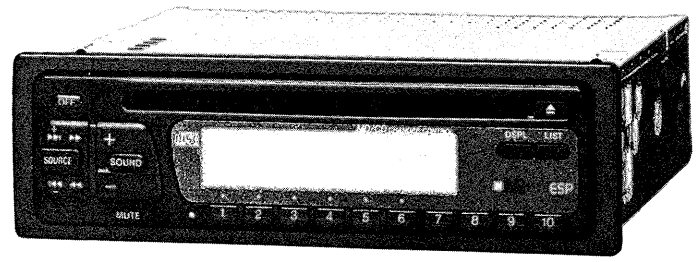

Photo: CDX-C610

Model Name Using Similar Mechanism	NEW
CD Drive Mechanism Type	MG-333E-121
Optical Pick-Up Name	KSS-520A

SPECIFICATIONS

CD player section

System	Compact disc digital audio system
Signal-to-noise ratio	90 dB
Frequency response	10 – 20,000 Hz
Wow and flutter	Below measurable limit
Laser Diode Properties	
Material	GaAlAs
Wavelength	780 nm
Emission Duration	Continuous
Laser output power	Less than 44.6 μW*

* *This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.*

Tuner section (CDX-C610)

FM

Tuning range	87.5 – 107.9 MHz
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz
Usable sensitivity	8 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	62 dB (stereo), 65 dB (mono)
Harmonic distortion at 1 kHz	0.9 % (stereo), 0.3 % (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz
Capture ratio	2 dB

AM

Tuning range	530 – 1,710 kHz
Antenna terminal	External antenna connector
Intermediate frequency	10.71 MHz/450 kHz
Sensitivity	30 μV

Tuner section (CDX-610RDS)

FM

Tuning range	87.5 – 107.9 MHz
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz
Usable sensitivity	8 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	62 dB (stereo), 65 dB (mono)
Harmonic distortion at 1 kHz	0.9 % (stereo), 0.5 % (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz
Capture ratio	2 dB

MW/LW

Tuning range	MW: 531 – 1,602 kHz LW: 153 – 281 kHz
Antenna terminal	External antenna connector
Intermediate frequency	10.71 MHz/450 kHz
Sensitivity	MW: 30 μV LW: 50 μV

— Continued on next page —

使用時は添付資料も参照のこと
Refer to the additional documents.

CDX-C610
FM/AM COMPACT DISC PLAYER
CDX-610RDS
FM/MW COMPACT DISC PLAYER

SONY®

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	35 W × 4 (at 4 ohms)

General

Output lead	Power antenna relay control lead Power amplifier control lead
Tone controls	Bass ±8 dB at 100 Hz Treble ±8 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 188 × 58 × 177 mm (7 1/2 × 2 3/8 × 7 in.) (w/h/d)
Mounting dimensions	Approx. 178 × 50 × 154 mm (7 1/8 × 2 × 6 1/8 in.) (w/h/d)
Mass	Approx. 1.5 kg (3 lb. 4.9 oz.)
Supplied accessories	Parts for installation and connections (1 set) Front panel case (1)

Design and specifications are subject to change without notice.

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SEE ADDITIONAL INFORMATION

SERVICING NOTES

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

Laser Diode Properites
- Material: GaAlAs
- Wavelength: 780 nm
- Emission Duration: continuous
- Laser Output Power: less than 44.6 μW*
  * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

SAFETY-RELATED COMPONENT WARNING!!

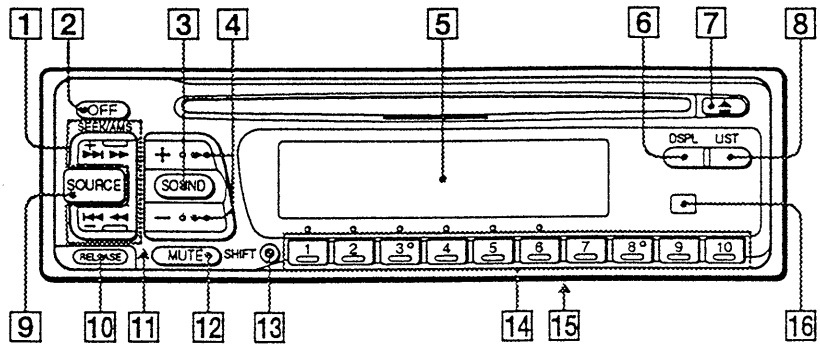
COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

This section is extracted from CDX-C610's instruction manual.

Location of controls



Refer to the pages for details.

1 SEEK/AMS (seek/Automatic Music Sensor/manual search) button 5, 6, 7, 8, 9, 12, 14, 15, 16

2 OFF button 4, 5

3 SOUND button 10

4 ⊕ ⊖ (volume/sub output level/bass/treble/balance/fader control) buttons 5, 9, 10, 13

5 Display window

6 DSPL button (display mode change) button 5, 9, 10, 11, 12, 13

7 ⏏ (eject) button 5

8 LIST button
- Disc Memo 13
- List-up 10, 13, 14
- Station Memo 9, 10

9 SOURCE (source select) button 5, 8, 9, 11, 13, 15

10 RELEASE (front panel release) button 4, 18

11 Reset button (located on the front side of the unit hidden by the front panel) 4

12 MUTE button 10

13 SHIFT button
- BTM 8
- PLAY MODE 6, 7, 8, 9, 12, 14, 15, 16
- SET UP 5, 11

14 During radio reception:
Number buttons 8, 9

During CD/MD playback:
Direct disc selection buttons 12

15 POWER SELECT switch (located on the bottom of the unit)
See "POWER SELECT Switch" in the installation/Connections manual.

16 Receptor for the optional wireless remote

Installation

Precautions

- Do not tamper with the four holes on the upper surface of the unit. They are for tuner adjustments to be done only by service technicians.
- Choose the installation location carefully so that the unit will not hamper the driver during driving.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight or hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.
- Use only the supplied mounting hardware for a safe and secure installation.

Mounting angle adjustment

Adjust the mounting angle to less than 20°.

How to Detach and Attach the Front Panel

Before installing the unit, detach the front panel.

To detach

Before detaching the front panel, be sure to press the OFF button to turn off the unit. Then press the RELEASE button, slide the front panel a little to the left, and pull it off toward you.

To attach

Align the parts Ⓐ and Ⓑ, and push the front panel until it clicks.

Installation

Précautions

- Ne pas toucher les quatre orifices sur le panneau supérieur de l'appareil. Ils servent aux réglages du tuner qui ne doivent être effectués que par un technicien.
- Choisir soigneusement l'emplacement de l'installation, pour que l'appareil ne gêne pas la conduite.
- Eviter d'installer l'appareil dans un endroit exposé à des températures élevées, comme en plein soleil ou à proximité d'une bouche d'air chaud, ou à de la poussière, saleté ou vibrations violentes.
- Pour garantir un montage sûr, n'utiliser que le matériel fourni.

Réglage de l'angle de montage

Ajuster l'inclinaison à un angle inférieur à 20°.

Retrait et pose du panneau avant

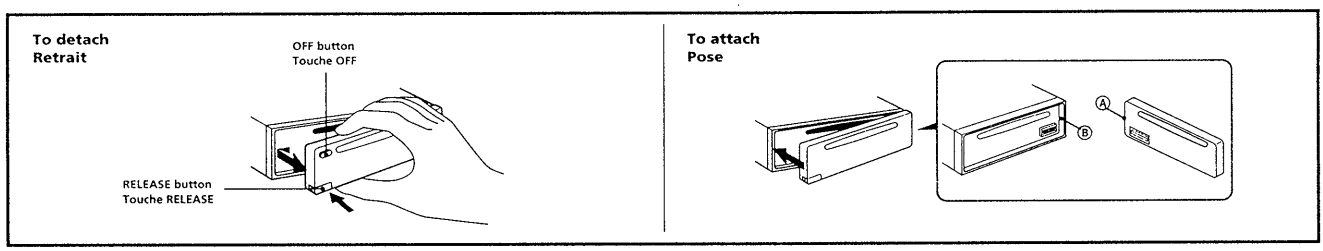
Avant d'installer l'appareil, déposer la panneau avant.

Retrait

Avant de détacher la façade, appuyez sur la touche OFF pour arrêter l'appareil. Ensuite, appuyez sur la touche RELEASE, poussez la façade légèrement vers la gauche et tirez vers vous pour l'enlever.

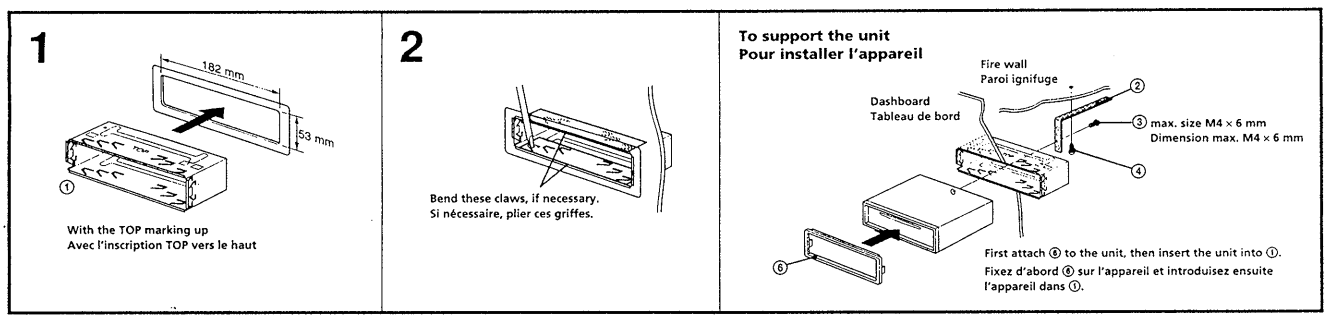
Pose

Aligner les points Ⓐ et Ⓑ, puis pousser l'appareil jusqu'au déclic.



Mounting Example

Installation in the dashboard



Exemple de montage

Installation dans le tableau de bord

Connections

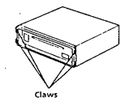
Mounting the Unit in a Japanese Car

You may not be able to install this unit in some makes of Japanese cars. In such a case, consult your Sony dealer.

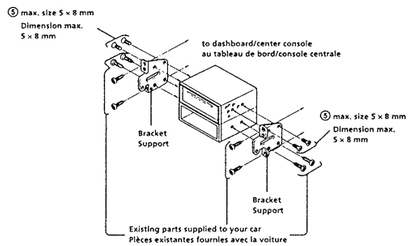
Installation de l'appareil dans une voiture japonaise

Si vous ne pouvez pas installer l'appareil dans une voiture japonaise, consultez votre revendeur Sony.

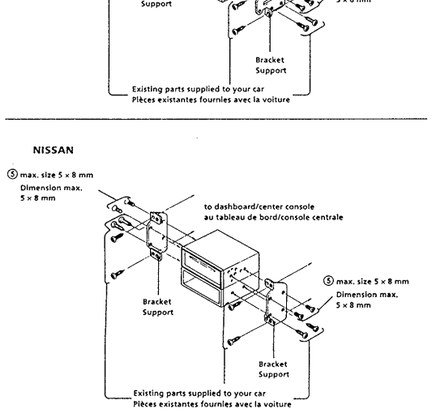
1 With nippers or similar, cut off claws on both side of the unit.
Coupez les onglets des deux côtés de l'appareil à l'aide de tenailles ou d'un outil similaire.



2 TOYOTA



NISSAN



Note
To prevent malfunction, install only with the supplied screws ⑤ and use existing parts supplied to your car.

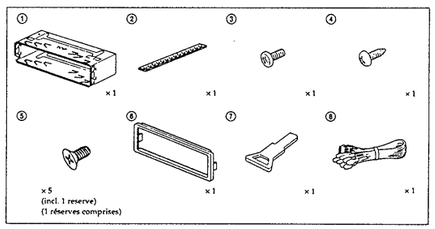
Remarque
Pour éviter tout dysfonctionnement, utilisez uniquement les vis de montage fournies ⑤ ainsi que les composants existants de votre voiture.

Parts for Installation and Connections

The numbers in the list are keyed to those in the instructions.

Matériel de montage fourni

Les numéros de la liste correspondent à ceux dans les instructions.



The release key ⑦ is used for dismounting the unit. See the operating instructions manual for details.

La clé de dégagement ⑦ est nécessaire pour démonter l'appareil. Consulter le mode d'emploi pour plus de détails.

Caution

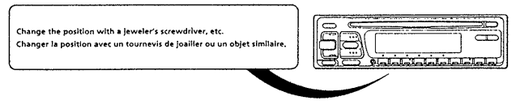
- This unit is designed for negative ground 12 V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the **yellow** and **red** power input leads only after all other leads have been connected.
- Be sure to connect the red power input lead to the positive 12 V power terminal which is energized when the ignition key is in the accessory position.
- **Run all ground wires to a common ground point.**
- The use of optical instruments with this product will increase eye hazard.

If Your Car has No Accessory Position on the Ignition Key Switch

— POWER SELECT Switch

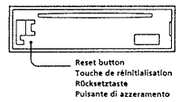
The illumination on the front panel is factory-set to be turned on even when the unit is not being played. However, this setting may cause some car battery wear if your car has no accessory position on the ignition key switch. To avoid this battery wear, set the POWER SELECT switch located on the bottom of the unit to the ⏻ position, then press the reset button. The illumination is reset to stay off while the unit is not being played.

Note
The caution alarm for the front panel is not activated when the POWER SELECT switch is set to the ⏻ position.


Change the position with a jeweler's screwdriver, etc.
Changer la position avec un tournevis de joaillier ou un objet similaire.

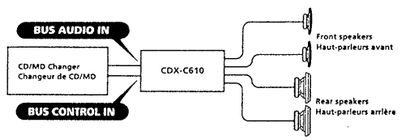
Reset Button

When the installation and connections are over, be sure to press the reset button with a ball-point pen etc.

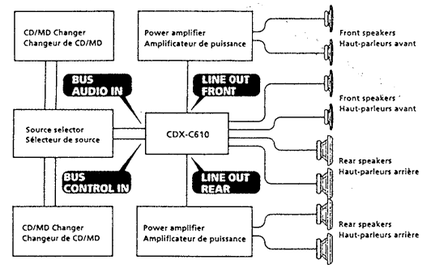


Connection Diagram

Example 1/Exemple 1



Example 2/Exemple 2



For connecting two or more changers, the source selector XA-U20 (optional) and the BUS cable RC-61 (1 m) or RC-62 (2 m) (optional) are necessary.
Pour le raccordement de deux ou plusieurs changeurs, vous devez utiliser le sélecteur de source XA-U20 (optionnels) et le câble BUS RC-61 (1 m) ou RC-62 (2 m) (optionnels).

Connexions

Précautions

- Cet appareil est conçu pour fonctionner sur tension continue de 12 V avec masse négative.
- Avant d'effectuer les connexions, débrancher la borne de terre de la batterie du véhicule pour éviter tout court-circuit.
- Brancher les fils d'entrée d'alimentation **jaune** et **rouge** seulement après avoir terminé tous les autres branchements.
- Veiller à ne pas raccorder le fil rouge d'entrée d'alimentation à la borne positive de 12 V qui est alimentée quand la clé de contact est sur la position accessoires.
- **Rassembler tous les fils de terre en un point de masse commun.**

Si l'appareil est utilisé dans une voiture dont la clé de contact n'a pas de position accessoires

— Interrupteur POWER SELECT

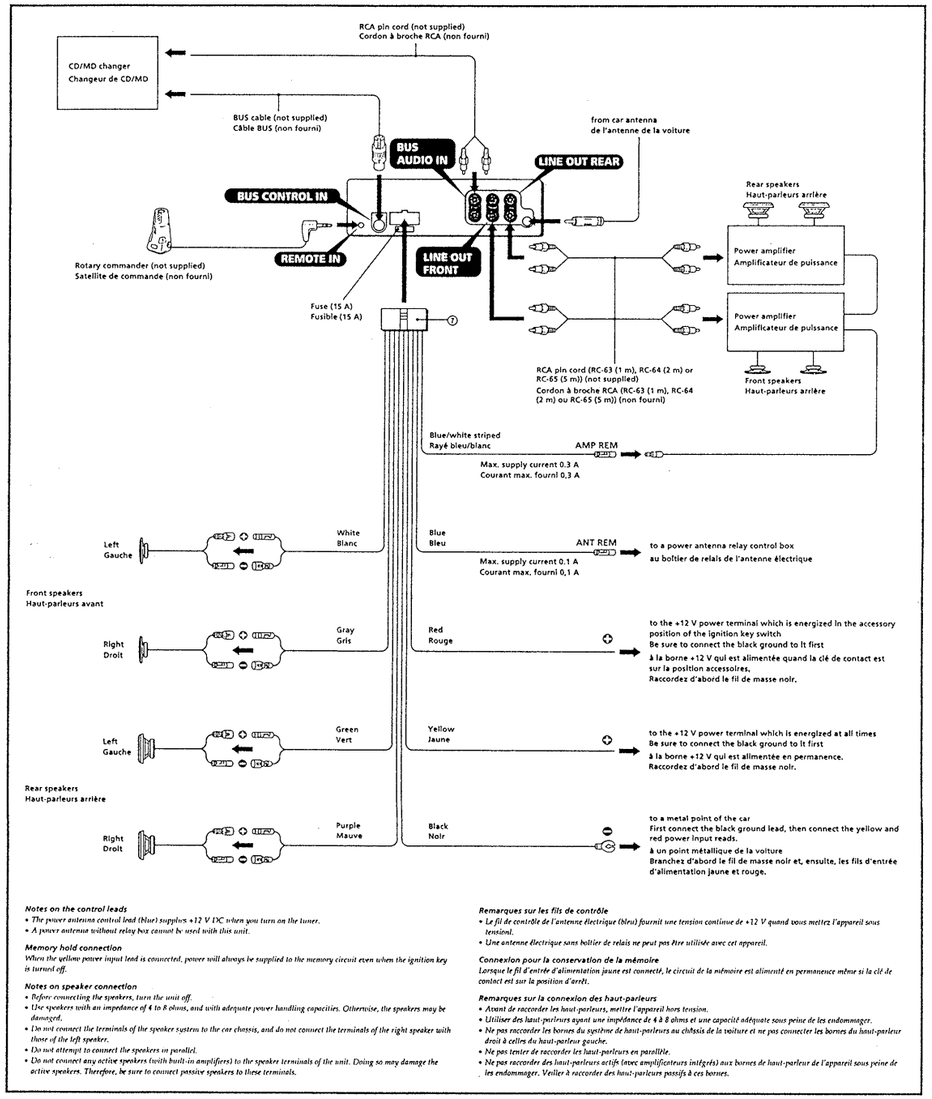
L'éclairage du panneau avant est réglé en usine de manière à s'allumer même quand l'appareil ne fonctionne pas. Cependant, ce réglage risque d'épuiser la batterie si l'appareil est utilisé dans une voiture dont la clé de contact ne possède pas de position accessoires. Pour éviter d'épuiser la batterie, régler l'interrupteur POWER sur le socle de l'appareil sur la position ⏻, puis appuyer sur la touche de réinitialisation. L'éclairage est réglé pour rester éteint quand l'appareil n'est pas utilisé.

Remarque
Quand l'interrupteur POWER SELECT est réglé sur la position ⏻, l'intensité du panneau avant ne fonctionne pas.

Touche de réinitialisation

Quand l'installation et les connexions sont terminées, appuyer sur la touche de réinitialisation avec un stylo bille ou un objet pointu.

Connections de l'exemple


RCA pin cord (not supplied)
Cordon à broche RCA (non fourni)
CD/MD changer
Changeur de CD/MD
BUS cable (not supplied)
Câble BUS (non fourni)
from car antenna
de l'antenne de la voiture
BUS AUDIO IN
LINE OUT REAR
BUS CONTROL IN
REMOTE IN
LINE OUT FRONT
Rear speakers
Haut-parleurs arrière
Rotary commander (not supplied)
Satellite de commande (non fourni)
Power amplifier
Amplificateur de puissance
Power amplifier
Amplificateur de puissance
Fuse (15 A)
Fusible (15 A)
RCA pin cord (RC-63 (1 m), RC-64 (2 m) or RC-65 (5 m)) (not supplied)
Cordon à broche RCA (RC-63 (1 m), RC-64 (2 m) ou RC-65 (5 m)) (non fourni)
Front speakers
Haut-parleurs arrière
Blue/white striped
Rayé bleu/blanc
AMP REM
Max. supply current 0.3 A
Courant max. fourni 0,3 A
Left
Gauche
White
Blanc
Blue
Bleu
ANT REM
to a power antenna relay control box
au boîtier de relais de l'antenne électrique
Max. supply current 0.1 A
Courant max. fourni 0,1 A
Front speakers
Haut-parleurs avant
Right
Droit
Gray
Gris
Red
Rouge
to the +12 V power terminal which is energized in the accessory position of the ignition key switch
Be sure to connect the black ground to it first
à la borne +12 V qui est alimentée quand la clé de contact est sur la position accessoires.
Raccordez d'abord le fil de masse noir.
Left
Gauche
Green
Vert
Yellow
Jaune
to the +12 V power terminal which is energized at all times
Be sure to connect the black ground to it first
à la borne +12 V qui est alimentée en permanence.
Raccordez d'abord le fil de masse noir.
Rear speakers
Haut-parleurs arrière
Right
Droit
Purple
Mauve
Black
Noir
to a metal point of the car
First connect the black ground lead, then connect the yellow and red power input leads.
à un point métallique de la voiture
Branchez d'abord le fil de masse noir et, ensuite, les fils d'entrée d'alimentation jaune et rouge.

Notes on the control leads
- *The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner.*
- *A power antenna without relay box cannot be used with this unit.*

Memory hold connection
When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition key is turned off.

Notes on speaker connection
- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.*
- *Do not connect the terminals of the speaker systems to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Do not connect any active speakers (with built-in amplifiers) to the speaker terminals of the unit. Doing so may damage the active speakers. Therefore, be sure to connect passive speakers to these terminals.*

Remarques sur les fils de contrôle
- *Le fil de contrôle de l'antenne électrique (bleu) fournit une tension continue de +12 V quand vous mettez l'appareil sous tension.*
- *Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil.*

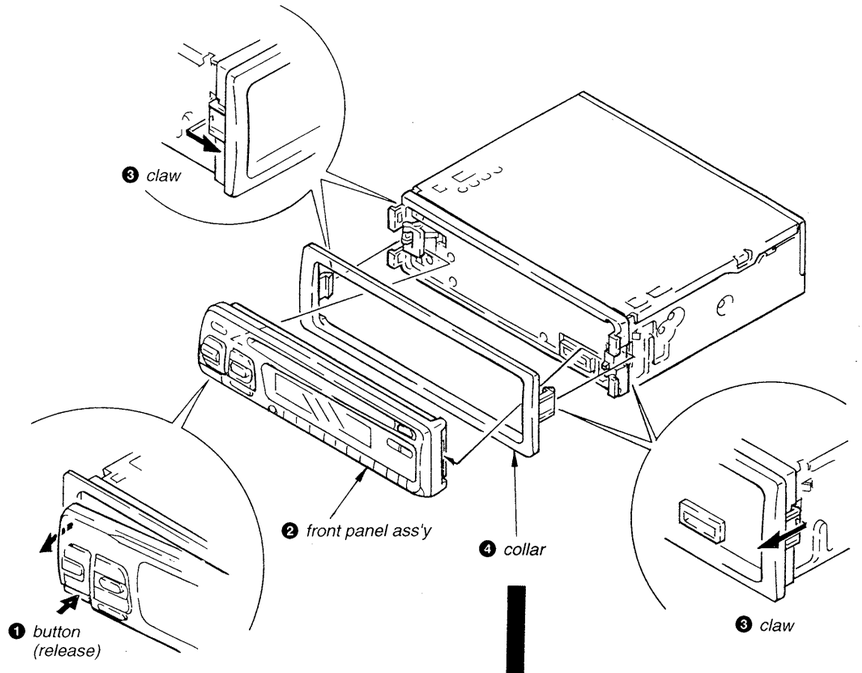
Connexion pour la conservation de la mémoire
Lorsque le fil d'entrée d'alimentation jaune est connecté, le circuit de la mémoire est alimenté en permanence même si la clé de contact est sur la position d'arrêt.

Remarques sur la connexion des haut-parleurs
- *Avant de raccorder les haut-parleurs, mettre l'appareil hors tension.*
- *Utiliser des haut-parleurs ayant une impédance de 4 à 8 ohms et une capacité adéquate sous peine de les endommager.*
- *Ne pas raccorder les bornes du système de haut-parleurs au châssis de la voiture et ne pas connecter les bornes du haut-parleur droit à celles du haut-parleur gauche.*
- *Ne pas tenter de raccorder les haut-parleurs en parallèle.*
- *Ne pas raccorder des haut-parleurs actifs (avec amplificateurs intégrés) aux bornes de haut-parleur de l'appareil sous peine de les endommager. Veiller à raccorder des haut-parleurs passifs à ces bornes.*

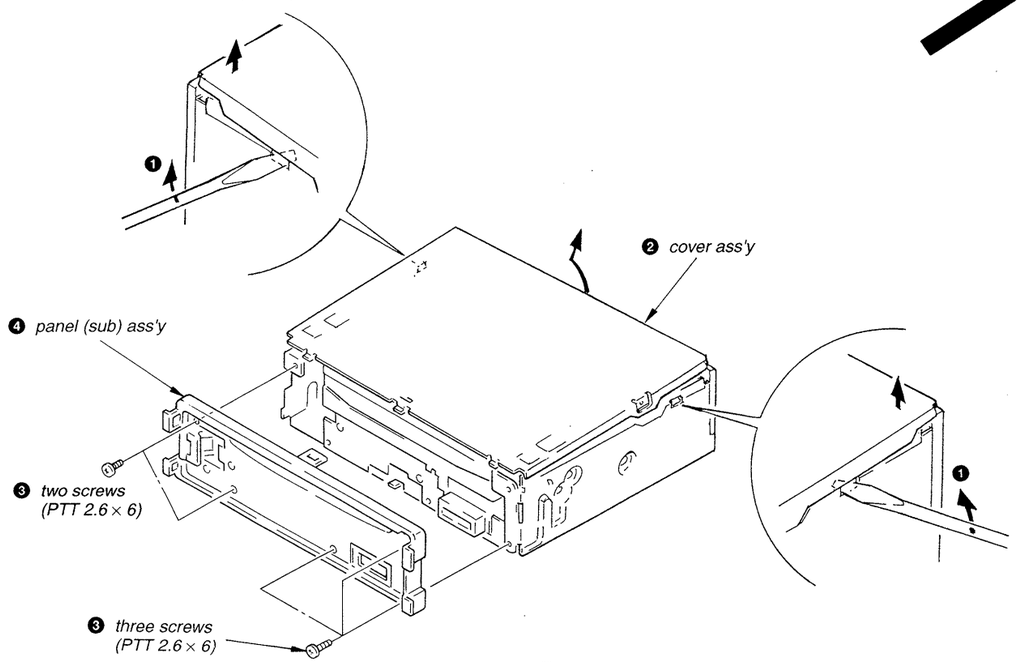
SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

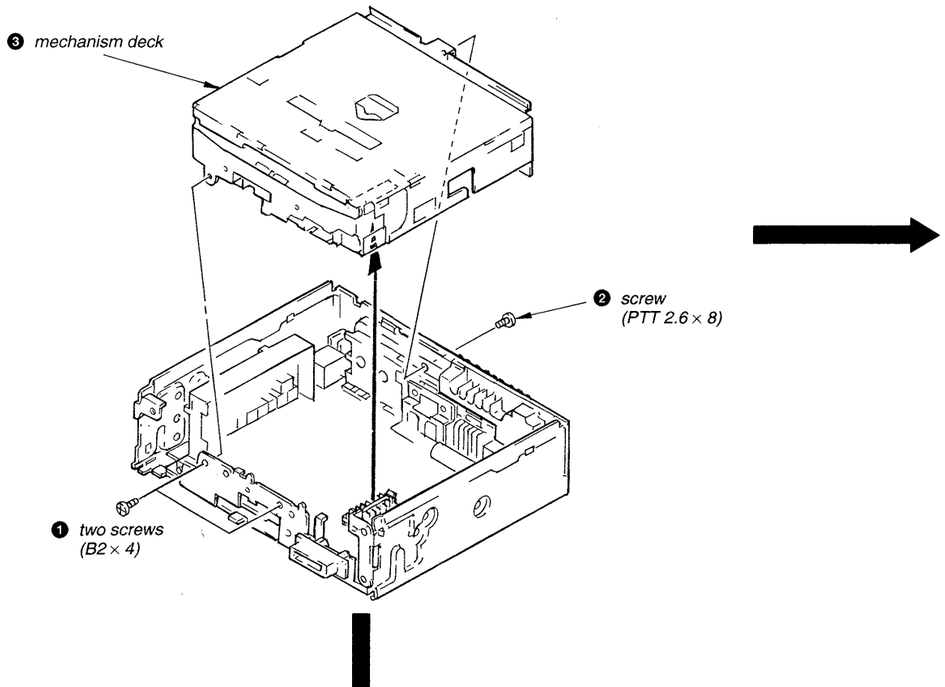
FRONT PANEL ASS'Y



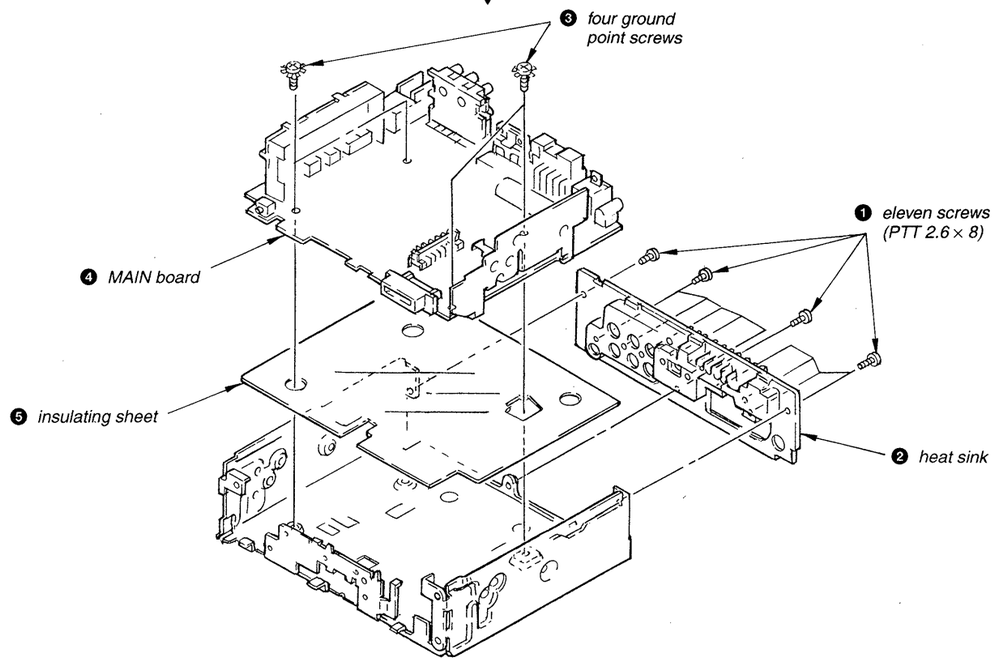
COVER ASS'Y, PANEL (SUB) ASS'Y



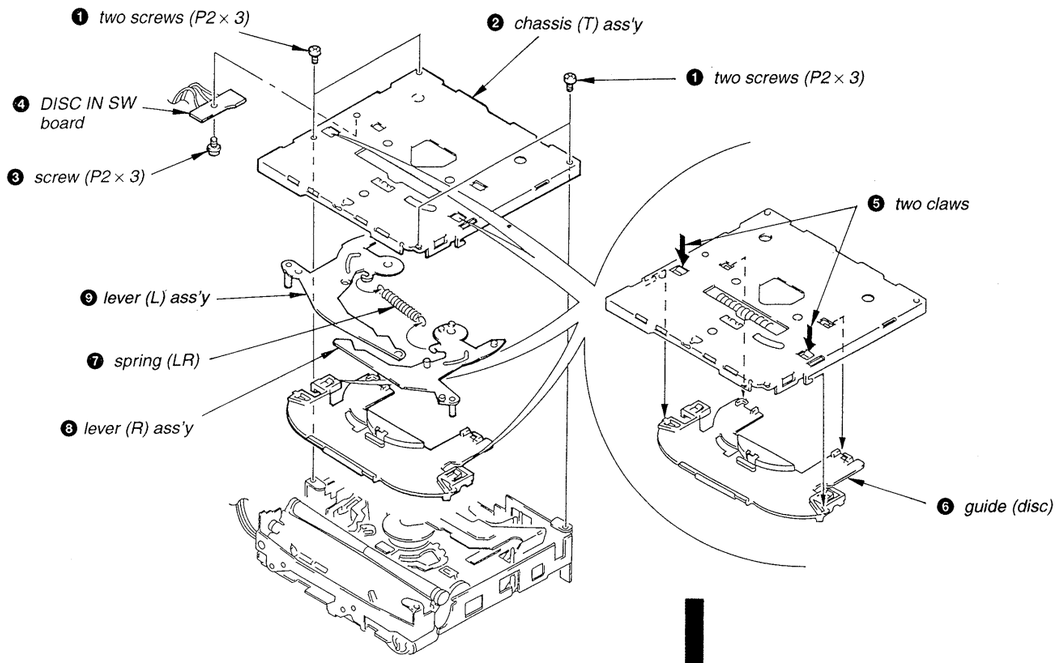
MECHANISM DECK



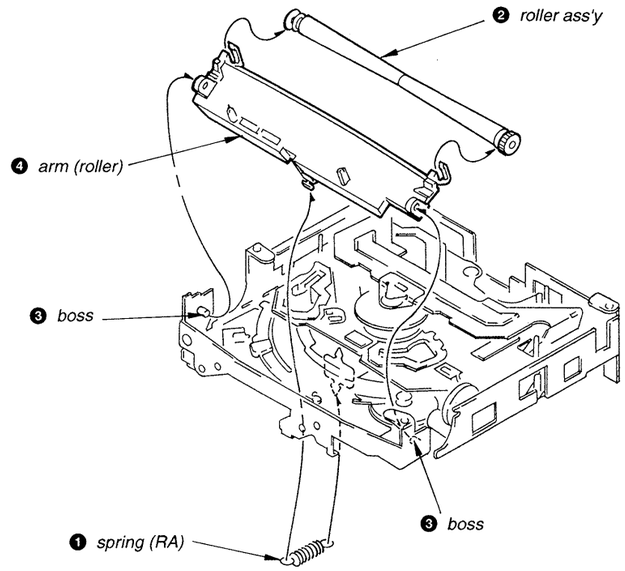
MAIN BOARD



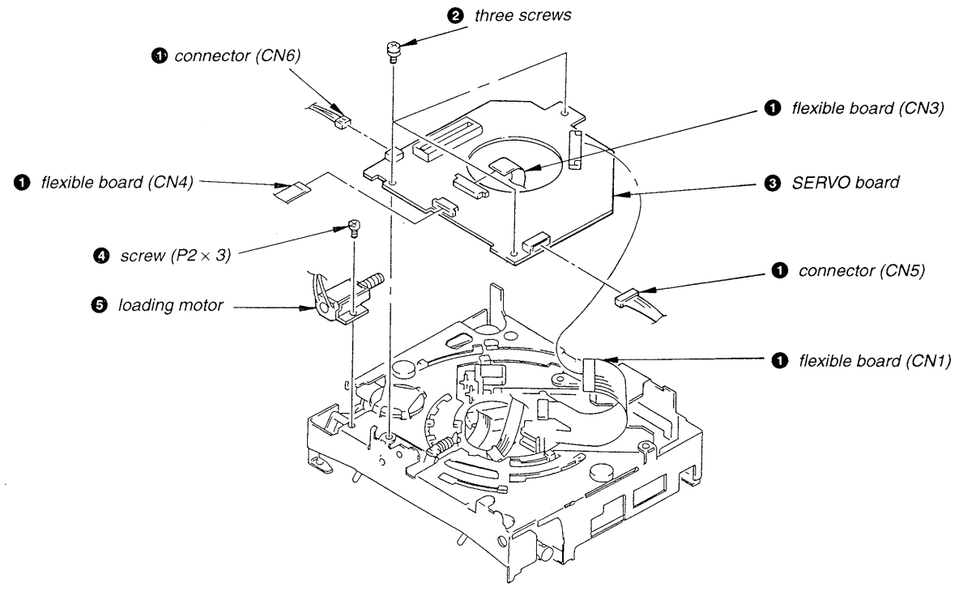
CHASSIS (T) ASS'Y


❶ two screws (P2 × 3)
❷ chassis (T) ass'y
❶ two screws (P2 × 3)
❹ DISC IN SW board
❸ screw (P2 × 3)
❺ two claws
❾ lever (L) ass'y
❼ spring (LR)
❽ lever (R) ass'y
❻ guide (disc)

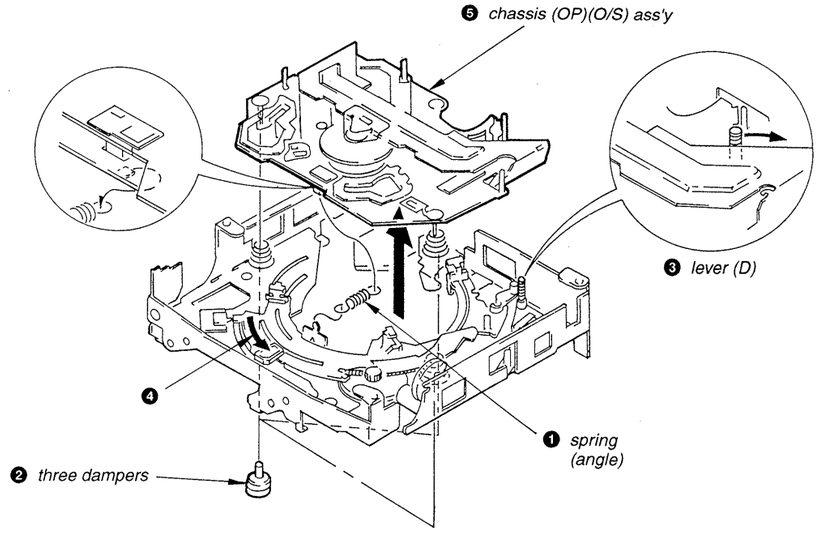
ROLLER ASS'Y, ARM (ROLLER)



SERVO BOARD, LOADING MOTOR



CHASSIS (OP)(O/S) ASS'Y



SECTION 3
TEST MODE

This set have the test mode function. In the test mode, FM Auto Scan/Stop Level and AM (MW) Auto Scan/Stop Level adjustments can be performed easier than it in ordinary procedure.

Set the Test Mode

1. Set the "OFF" mode.
2. Push the preset [4] button.
3. Push the preset [5] button.
4. Press the preset [1] button for two seconds.
5. Then the display indicates all lights, the test mode is set.

Release the Test Mode

1. Push the "OFF" button.

SECTION 4
ELECTRICAL ADJUSTMENTS

CD SECTION

CD section adjustments are done automatically in this set.

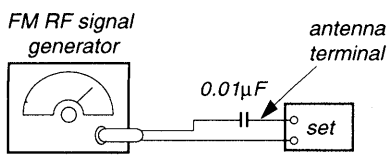
TUNER SECTION 0dB=1μV

Cautions during repair
When the front end is defective, replace it by a new one because its internal block is difficult to repair.

FM Auto Scan/Stop Level Adjustment

Setting:

SOURCE button: FM

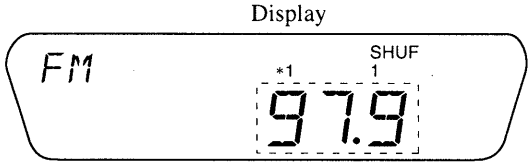


Carrier frequency : 97.9MHz (US, Canadian model)
98.0MHz (AEP, UK, German model)
Output level : 22dB(12.6μV)
Mode : mono
Modulation : 1kHz, 75kHz deviation

Procedure:

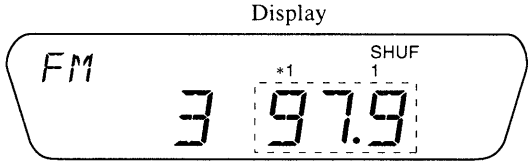
1. Set to the test mode.
2. Push the [SOURCE] button and set to FM.

Display



3. Push the preset [3] button.

Display



4. Adjust with the volume RV2 on TU1 so that the "FM" indication turns to "FM0" indication on the display window.
   But, in case of already indicated "FM0", turn the RV2 so that put out light "0" indication and adjustment.

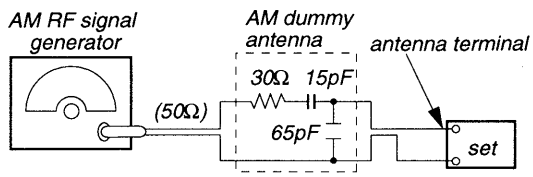
Display

*1: AEP, UK and German models are indicates "98.0".

AM (MW) Auto Scan/Stop Level Adjustment

Setting:

SOURCE button (US, Canadian model): AM
SOURCE button (AEP, UK, German model): MW

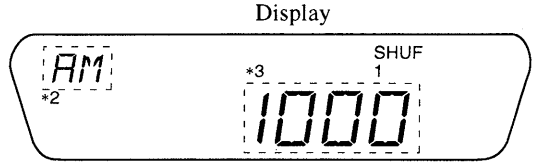


Carrier frequency : 1000kHz (US, Canadian model)
999kHz (AEP, UK, German model)
30% amplitude modulation by 400Hz signal
Output level : 35dB (56.2μV) (US, Canadian model)
33dB (44.7μV) (AEP, UK, German model)

Procedure:

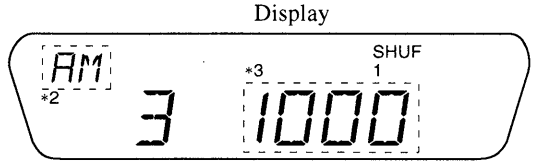
1. Set to the test mode.
2. Push the [SOURCE] button and set to AM (US, Canadian model) or MW (AEP, UK, German model).

Display



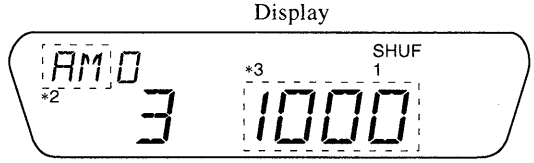
3. Push the preset [3] button.

Display



4. Adjust with the volume RV1 on TU1 so that the "AM" or "MW" indication turns to "AM0" or "MW0" indication on the display window.
   But, in case of already indicated "AM0" or "MW0", turn the RV1 so that put out light "0" indication and adjustment.

Display

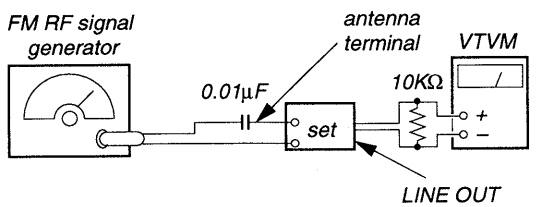


*2: AEP, UK and German models are indicates "MW".
*3: AEP, UK and German models are indicates "999".

FM Noise Focus Adjustment

Setting:

SOURCE button: FM



Carrier frequency : 97.9MHz (US, Canadian model)
98.0MHz (AEP, UK, German model)
Output level : 60dB(1mV)
Mode : mono
Modulation : 1kHz, 75kHz deviation

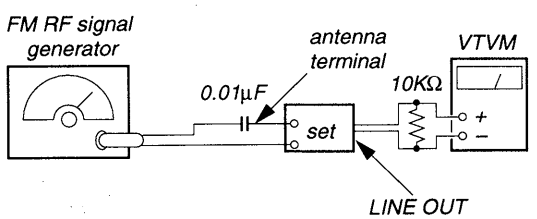
Procedure:

1. Tune the 97.9 MHz (US, Canadian model) or 98.0MHz (AEP, UK, German model).
2. The then output level is supposing that (B) dB.
3. Adjust with the volume RV3 on TU1 so that the output level is (B) –30dB then signal generator input set to –20dB.

FM Stereo Separation Adjustment

Setting:

SOURCE button: FM



Carrier frequency : 97.9MHz (US, Canadian model)
98.0MHz (AEP, UK, German model)
Output level : 60dB(1mV)
Mode : stereo
Modulation : main: 1kHz, 75kHz deviation (100%)
19kHz pilot: 7.5kHz deviation (10%)

Procedure:

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV4 on TU1 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV4 on TU1 for minimum reading.

L-CH Stereo separation: Ⓐ–Ⓑ
R-CH Stereo separation: Ⓒ–Ⓓ
The separation of both channels should be equal.

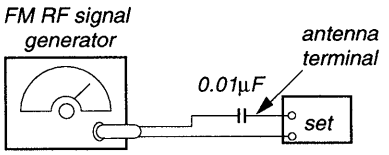
Specification: Separation more than 28dB

FM Signal Meter Adjustment

(CDX-C610RDS)

Setting:

SOURCE button: FM

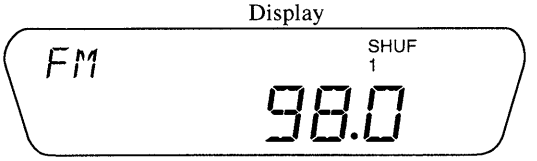


Carrier frequency : 98.0MHz
Output level : 35dB (56.2µV)
Mode : mono
Modulation : 1kHz, 75kHz deviation

Procedure:

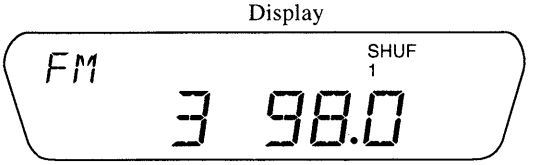
1. Set to the test mode. (See page 11.)
2. Push the SOURCE button and set to FM.

Display



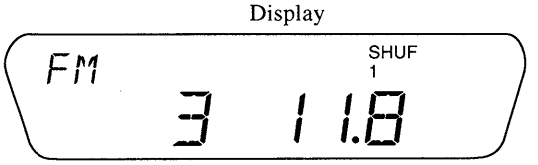
3. Push the preset 3 button.

Display



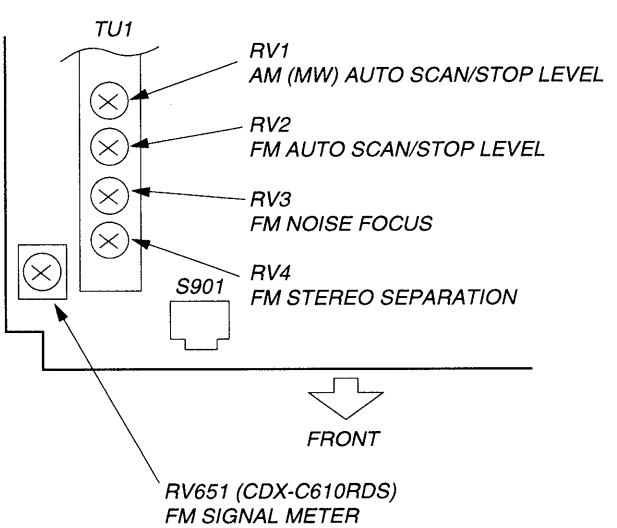
4. Push the 10 button.
5. Adjust RV651 so that the display indication is "11.8".

Display



Specification: display indication: 11.6 to 12.0

Adjustment Location:



SECTION 5
DIAGRAMS

5-1. PRINTED WIRING BOARD – DISPLAY Section – • See page 17 for Circuit Boards Location.

Note:
- ⟷ : parts extracted from the component side.
- ▒▒▒ : Pattern from the side which enables seeing.

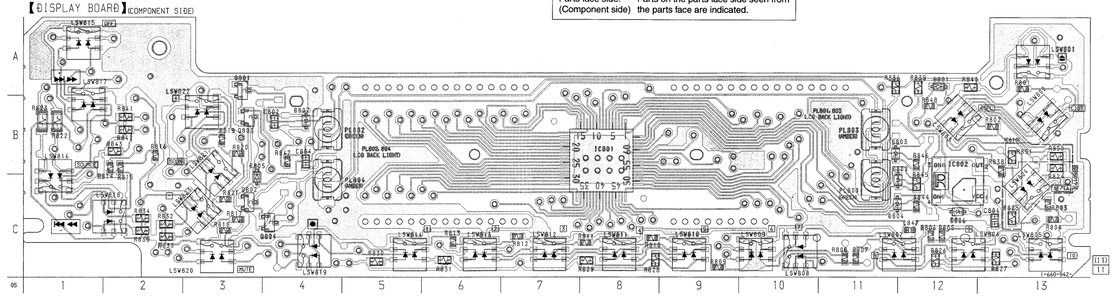
(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component side)	Parts on the parts face side seen from the parts face are indicated.

• Semiconductor Location

Ref. No.	Location
D801	A-12
D802	B-11
D803	B-11
D804	C-11
D805	C-3
D806	C-12
D807	B-4
IC801	B-8
IC802	B-12
Q801	A-3
Q802	C-3
Q803	B-3
Q804	C-4

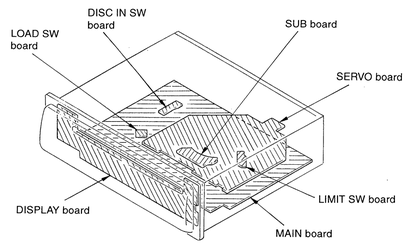
【DISPLAY BOARD】(COMPONENT SIDE)



SEE ADDITIONAL INFORMATION

5-3. PRINTED WIRING BOARD – MAIN Section –

• **Circuit Boards Location**



• **Semiconductor Location**

Ref. No.	Location
D50	G-3
D301	E-4
D302	E-4
D312	B-11
D701	A-13
D902	D-9
D904	C-9
D905	F-12
D907	A-14
D925	F-12
D954	G-10
D955	F-4
IC1	E-4
IC2	G-5
IC3	H-3
IC201	D-6
IC301	E-7
IC455	E-9
IC501	J-4
IC601	I-5
IC651	K-1
IC701	H-8
IC751	C-14
IC902	F-12
IC903	I-7
Q2	G-3
Q101	D-4
Q102	D-4
Q201	E-4
Q202	D-4
Q301	D-11
Q455	D-9
Q456	D-9
Q600	C-3
Q701	B-13
Q752	C-13
Q902	C-10
Q953	J-11
Q954	J-10
Q957	G-6

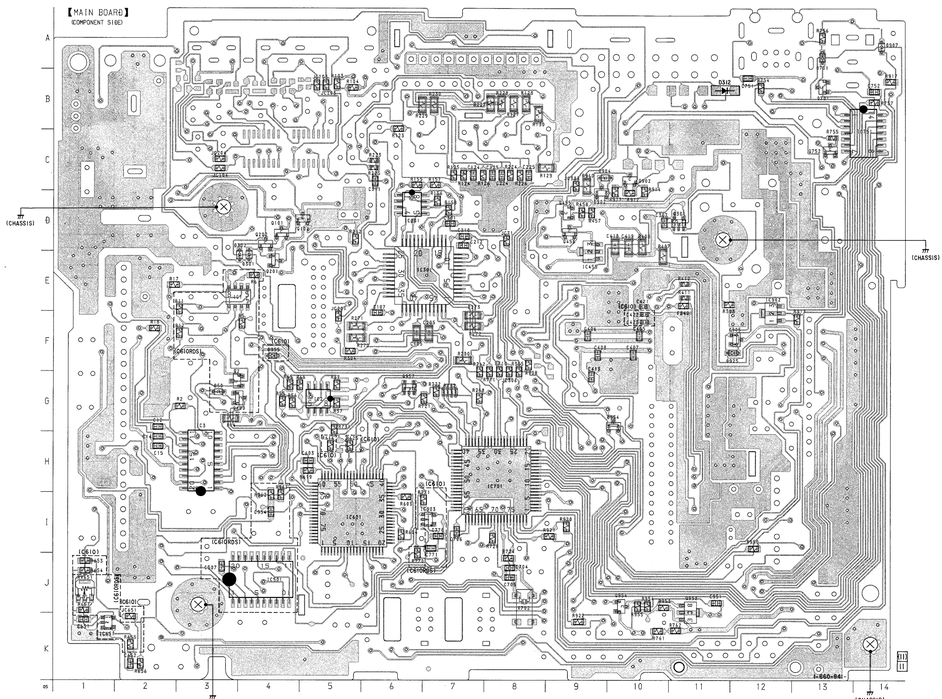
Note:
- ⟜—— : parts extracted from the component side.
- △ : internal component.
- ▒▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:

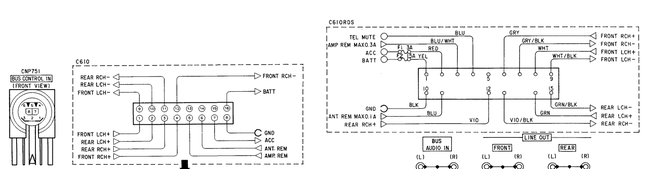
Pattern face side: (Conductor side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component side)	Parts on the parts face side seen from the parts face are indicated.

【MAIN BOARD】
(COMPONENT SIDE)



• **Semiconductor Location**

Ref. No.	Location
D1	F-13
D3	D-11
D4	D-14
D5	D-12
D310	C-3
D316	B-4
D451	H-3
D452	I-4
D601	G-9
D751	I-8
D752	B-3
D753	B-2
D754	B-3
D755	B-2
D760	H-6
D901	K-5
D906	A-1
D908	J-2
D909	K-2
D910	J-2
D911	K-5
D912	K-6
D914	K-6
D915	K-6
D916	I-6
D920	G-2
D921	E-1
D922	E-2
D951	I-6
D952	J-2
IC202	E-8
IC304	A-8
IC401	F-5
IC402	D-5
IC901	G-2
Q3	E-13
Q52	G-12
Q62	G-12
Q451	I-4
Q453	H-3
Q454	H-2
Q501	I-11
Q556	F-11
Q557	E-11
Q751	J-8
Q760	H-6
Q761	K-4
Q900	D-1
Q951	I-2
Q952	I-3

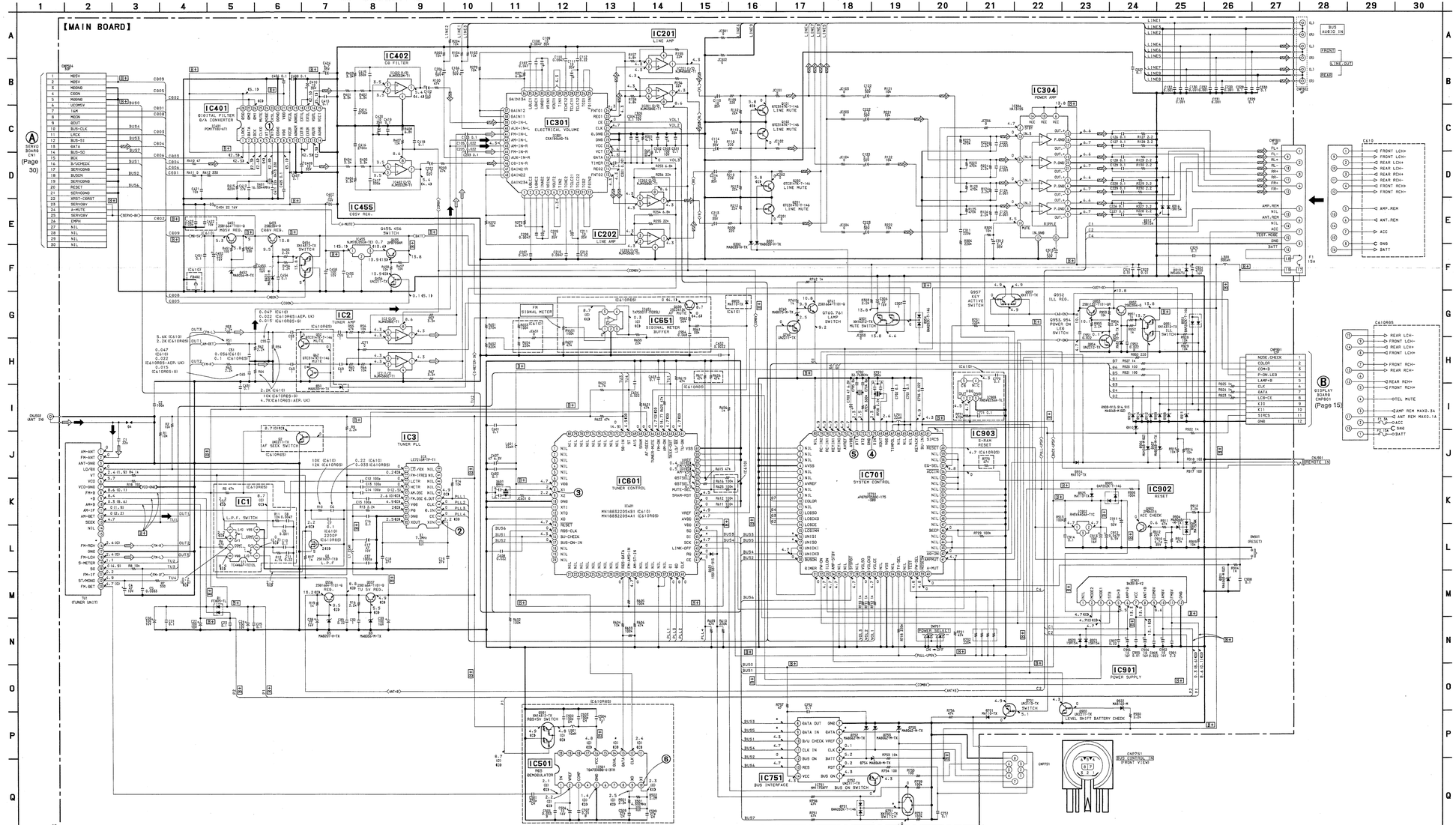


5-4. SCHEMATIC DIAGRAM – MAIN Section –

• See page 37 for IC Block Diagrams.

SEE ADDITIONAL INFORMATION

【MAIN BOARD】



• Waveforms

1 IC401 ⑥
16.9344 MHz
5Vp-p

2 IC3 ①
7.2 MHz
3.2Vp-p

3 IC601 ④
8MHz
3.4Vp-p

4 IC701 ⑩
5MHz
3Vp-p

5 IC701 ⑨
32.768 KHz
1.6Vp-p

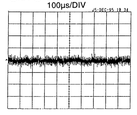
6 IC501 ⑩
4.332MHz
3Vp-p

Note:

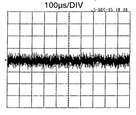
- All capacitors are in µF unless otherwise noted. pF: µµF
  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- △ : internal component.
- B+ : B+ Line.
- : panel designation.
- : adjustment for repair.
- Power voltage is dc 14.4 V and fed with regulated dc power supply from BATT and ACC terminals.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no-mark : FM
  ( ) : AM (MW)
  << >> : CD
  * : Impossible to measure.
- Voltages are taken with a VOM (10 MΩ/V).
  Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
  ➡ : AM (MW)
  ⇨ : CD
- Abbreviation
  G : German

• Waveforms

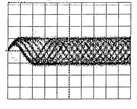
❶IC1 ⑯ 200mV/DIV
100µs/DIV



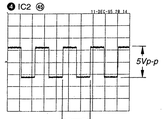
❷IC1 ⑯ 200mV/DIV
100µs/DIV



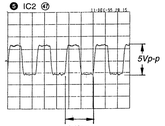
❸IC1 ⑰ 500mV/DIV
1µs/DIV



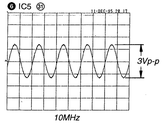
❹ IC2 ㊴



❺ IC2 ㊲



❻ IC5 ㊴



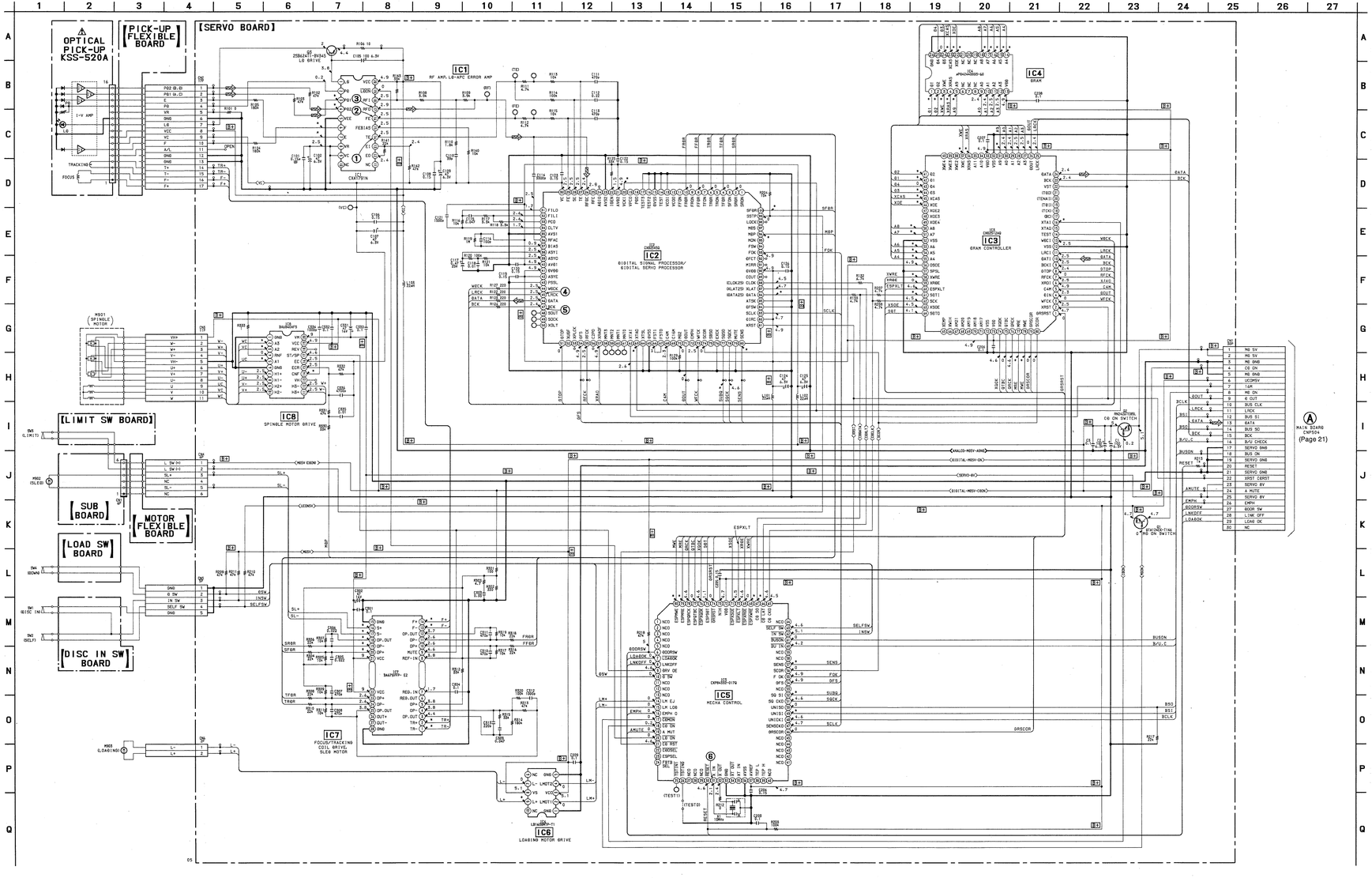
Note:

- All capacitors are in µF unless otherwise noted. pF: µµF
  50 WV or less are not indicated except for electrolytics and tantaliums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- △ : internal component.

Note:	**Note:**
The component identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line.
- Power voltage is dc 14.4 V and fed with regulated dc power supply from BATT and ACC terminals.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no-mark : CD
  * : Impossible to measure.
- Voltages are taken with a VOM (10 MΩ/V).
  Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ☞ : CD

5-5. SCHEMATIC DIAGRAM – MECHANISM DECK Section – • See page 35 for IC Block Daiagrams.



5-6. PRINTED WIRING BOARDS – MECHANISM DECK Section – • See page 17 for Circuit Boards Location.

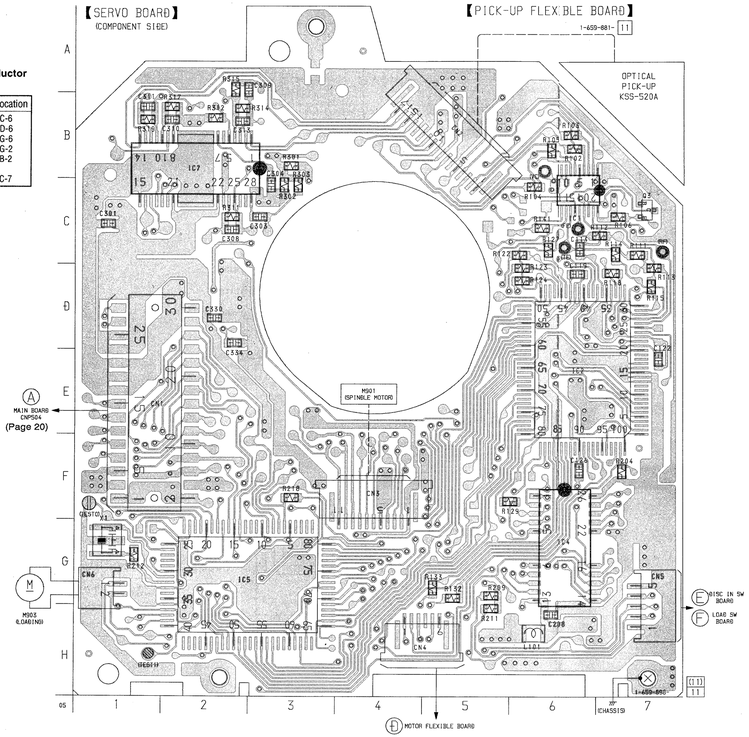
【SERVO BOARD】
(COMPONENT SIDE)

【PICK-UP FLEXIBLE BOARD】
1-659-881- (11)

OPTICAL PICK-UP KSS-520A

• **Semiconductor Location**

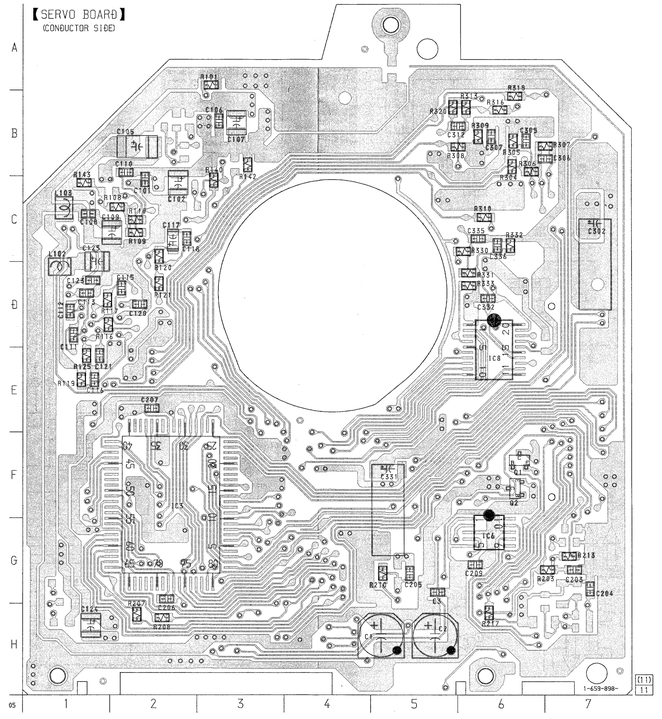
Ref. No.	Location
IC1	C-6
IC2	D-6
IC4	G-6
IC5	G-2
IC7	B-2
Q3	C-7



【SERVO BOARD】
(CONDUCTOR SIDE)

• **Semiconductor Location**

Ref. No.	Location
IC3	F-2
IC6	G-6
IC8	D-6
Q1	F-6
Q2	F-6



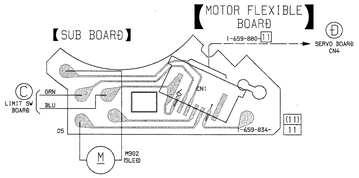
Note:
- ——— : parts extracted from the conductor side.
- △ : internal component.
- ▒▒▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

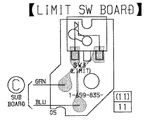
Caution:	
Pattern face side: (Conductor side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component side)	Parts on the parts face side seen from the pattern face are indicated.

【SUB BOARD】

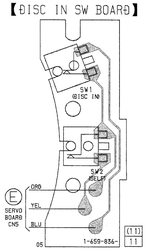
【MOTOR FLEXIBLE BOARD】
1-659-880- (11)
(D) SERVO BOARD CN4



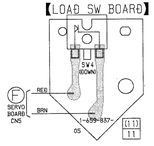
【LIMIT SW BOARD】



【DISC IN SW BOARD】

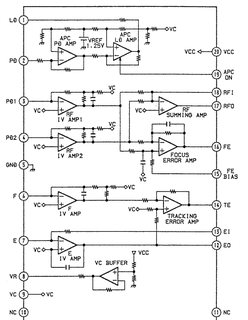


【LOAD SW BOARD】

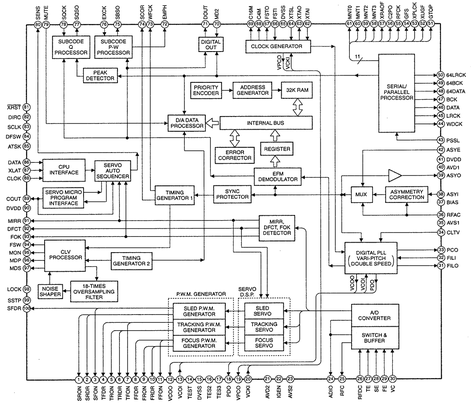


• IC Block Diagrams
– MECHANISM DECK SECTION –

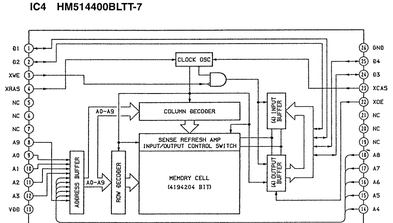
IC1 CXA1791N



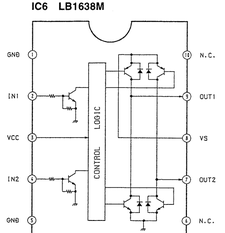
IC2 CXD2545Q



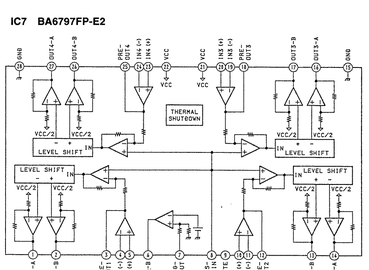
IC4 HM514400BLTT-7



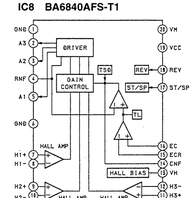
IC6 LB1638M



IC7 BA6797FP-E2

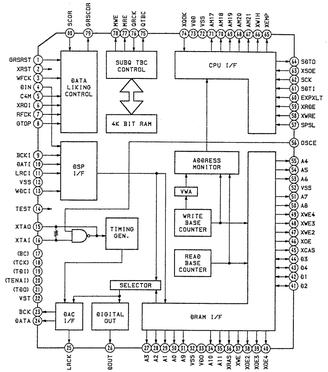


IC8 BA6840AFS-T1

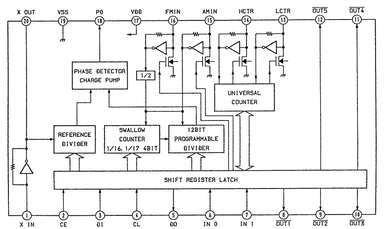


– MAIN SECTION –

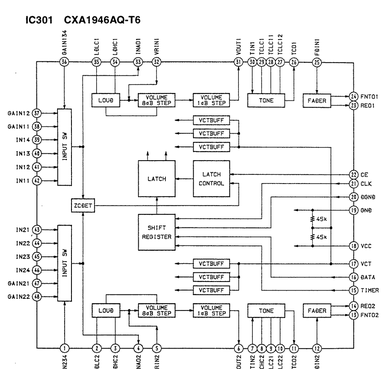
IC3 CXD2512AQ



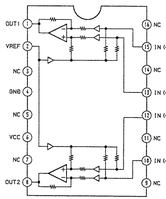
IC3 LC7216M



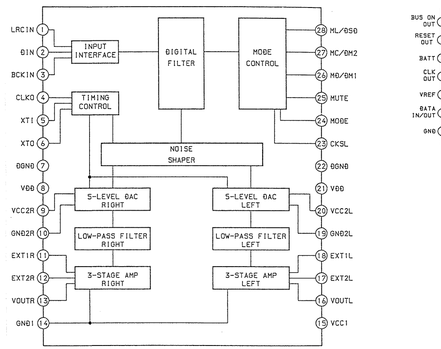
IC301 CXA1946AQ-T6



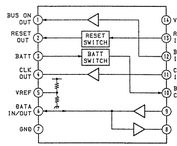
IC302, IC303 TA2050F (EL)



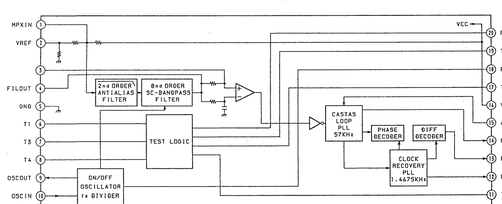
IC401 PCM1710U-A



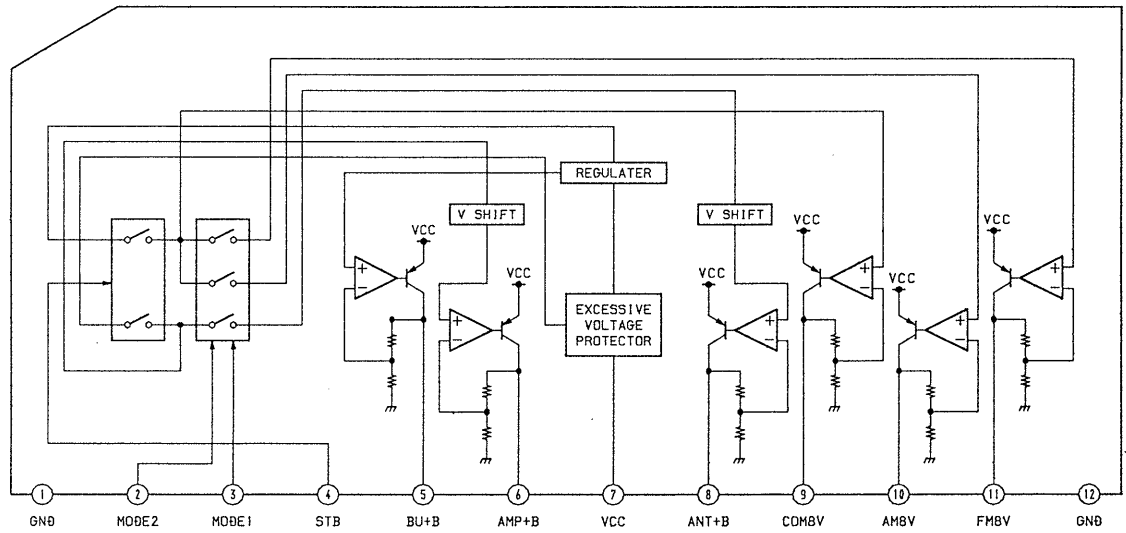
IC751 MM1175XFF



IC501 TDA7330BD-013TR



IC901 BA3918-V2



5-7. IC PIN FUNCTION DESCRIPTION
IC5 CXP84332-017Q (MECHA CONTROL)

Pin No.	Pin Name	I/O	Function
1-5	NCO	O	Not used.
6	DOOR SW	I	Door switch input pin. (not used)
7	$\overline{\text{LOAD OK}}$	O	Loading OK signal output pin. (not used)
8	LINK OFF	O	Link off signal output pin. (not used)
9	DRV OE	O	Motor driver output enable signal output pin.
10	$\overline{\text{D SW}}$	I	Down switch input pin.
11-13	NCO	O	Not used.
14	LM EJ	O	Loading motor control pin. (eject detection)
15	LM LOD	O	Loading motor control pin. (loading detection)
16	EMPH O	O	De-emphasis control pin.
17	$\overline{\text{CDMON}}$	O	Mechanism deck section power supply control pin.
18	$\overline{\text{CDON}}$	O	CD servo circuit power supply control pin.
19	A MUT	O	Audio muting signal output pin.
20	$\overline{\text{LD ON}}$	O	Laser power on/off control pin.
21	$\overline{\text{CD RST}}$	O	CD reset signal output pin.
22	$\overline{\text{CDOSEL}}$	I	CD digital out function select pin. (not used)
23	ESPSEL	I	ESP function select pin. (not used)
24	FBTBSEL	I	CD automatic adjustment function select pin. (not used)
25	$\overline{\text{TSTIN1}}$	I	Test mode setting pin.
26	$\overline{\text{TSTIN0}}$	I	Test mode setting pin.
27-29	NCO	O	Not used.
30	$\overline{\text{RESET}}$	I	Reset input pin.
31	X IN	I	Main system clock. (10MHz)
32	$\overline{\text{X OUT}}$	O	Main system clock. (10MHz)
33	GND	–	GND.
34	$\overline{\text{XT OUT}}$	O	Sub system clock. (not used)
35	$\overline{\text{XT IN}}$	I	Sub system clock. (not used)
36	AVSS	O	GND for A/D converter.
37	AVREF	O	Power supply for A/D converter.
38	TEP L	I	Temperature value input pin. (A/D input) (not used)
39	TEP H	I	Temperature value input pin. (A/D input) (not used)
40-45	NCO	O	Not used.
46	GRSCOR	I	Start timing signal for frame writing from ESP.
47	SENSCKO	O	Sense serial data reading clock output pin.
48	UNICKI	I	Serial clock input pin. (for SONY BUS)
49	UNISI	I	Serial data input pin. (for SONY BUS)
50	UNISO	O	Serial data output pin. (for SONY BUS)
51	SQ CKO	O	Sub-code Q data reading clock output pin.
52	SQ SI	I	Sub-code Q data input pin.
53	NCO	O	Not used.
54	GFS	I	Frame sync lock state input pin.
55	F OK	I	Focus OK signal input pin.
56	SCOR	I	Sub-code sync detection signal input pin.
57	SENS	I	CD sense signal input pin.

Pin No.	Pin Name	I/O	Function
58,59	NCO	O	Not used.
60	$\overline{\text{BU IN}}$	I	BATT voltage detection pin.
61	$\overline{\text{BUSON}}$	I	BUS ON signal input pin. (for SONY BUS)
62	$\overline{\text{IN SW}}$	I	IN switch input pin.
63	$\overline{\text{SELF SW}}$	I	SELF switch input pin.
64	NCO	O	Not used.
65	CD CKO	O	CD serial clock output pin.
66	$\overline{\text{CD LAT}}$	O	CD latch signal output pin.
67	CD SO	O	CD serial data output pin.
68	ESPXWRE	O	DRAM write enable signal output pin.
69	ESPXRDE	O	DRAM read enable signal output pin.
70	$\overline{\text{ESPXLT}}$	O	DRAM control latch signal output pin.
71	$\overline{\text{ESPXSOE}}$	O	DRAM control serial data output enable signal output pin.
72	VDD	–	Power supply.
73	NIH	–	Not used.
74	$\overline{\text{GRSRST}}$	O	DRAM address reset signal output pin. "H" output on track jump.
75	ESPSDT	I	DRAM control status reading data input pin.
76	$\overline{\text{ESPXQOK}}$	O	Sub-code Q OK signal output pin.
77	ESPQTBC	I	Data reading pin for TRACK NO./INDEX/MIN/SCE display during ESP playback.
78	ESPQRCK	O	Data reading clock output pin for TRACK NO./INDEX/MIN/SCE display during ESP playback.
79	ESPMRE	I	Enable to data write for lapse of time display during ESP playback.
80	ESPMWE	I	Enable to data write for lapse of time display during ESP playback.

IC601 MN883220S4B1 (TUNER CONTROL) (CDX-C610)
IC601 MN883220S4A1 (TUNER CONTROL) (CDX-C610RDS)

Pin No.	Pin Name	I/O	Function
1-6	NIL	–	Not used.
7	VDD	–	Power supply.
8	X1	–	System clock. (8.0MHz)
9	X2	–	System clock. (8.0MHz)
10	GND	–	GND.
11	XTI	I	Not used.
12	XTO	O	Not used.
13	XO	–	Connected to GND.
14	$\overline{\text{RESET}}$	I	Reset input.
15	RDS-CLK	I	RDS serial clock input pin.
16	BU-CHECK	I	BATT voltage detection pin.
17	BUS-ON-IN	I	BUS ON control input pin.
18-29	NIL	–	Not used.
30	RDS-DATA	I	RDS serial data input pin.
31	FM-AMS-IN	I	Not used.
32	AM-ST-IN	I	Not used.
33-37	NIL	–	Not used.
38	DI	I	PLL serial data input pin.
39	DO	O	PLL serial data output pin.
40	CLK	O	PLL serial clock output pin.
41	CE	O	PLL serial chip enable output pin.
42	RQ	O	Bus request signal output pin.
43	LINK-OFF	O	Link-off signal output pin. (for SONY BUS)
44	SCK	I	Serial clock input pin. (for SONY BUS)
45	SI	I	Serial data input pin. (for SONY BUS)
46	SO	O	Serial data output pin. (for SONY BUS)
47	VDD	–	Power supply.
48	AVDD	–	Power supply for A/D converter.
49	VREF	–	Reference power supply.
50,51	–	–	Connect to GND.
52	SRAM-RST	I	SRAM reset signal input pin.
53	MUTE-SEL	I	Muting select signal input pin.
54	DSTSEL1	I	Destination setting pin.
55	DSTSEL2	I	Destination setting pin.
56	AM-VSM	I	AM signal meter voltage detection pin.
57	FM-VSM	I	FM signal meter voltage detection pin.
58	VREF	–	Reference GND.
59	–	–	Connect to GND.
60	VSS	–	GND.
61	TU-ON	O	Tuner system power supply control pin.
62	$\overline{\text{DX}}$/LO	O	Not used.
63	SEEK OUT	O	Seek signal output pin.
64	AM-ON	O	Not used.

Pin No.	Pin Name	I/O	Function
65	FM-ON	O	FM power supply control pin.
66	TUNER-MUTE	O	Tuner muting signal output pin.
67	AF-SEEK	O	AF seek signal output pin.
68	SRAM	O	Not used.
69	A15	O	Not used.
70	ST	I	Stereo detection signal input pin.
71	SD-IN	I	Station detection signal input pin.
72-80	NIL	–	Not used.

IC701 μPD78058GC-175-3B9 (SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Function
1-3	NIL	I	Not used.
4	AVSS	–	GND for A/D converter.
5,6	NIL	I	Not used.
7	AVREF	–	Reference power supply for A/D converter.
8,9	NIL	I	Not used.
10	COLOR	O	Illumination color select pin. (GREEN/AMBER)
11	NIL	I	Not used.
12	LCDSO	O	LCD serial data output pin.
13	LCDCKO	O	LCD serial clock output pin.
14	LCDCE	O	LCD serial chip enable output pin.
15	$\overline{\text{LCDINH}}$	O	LCD serial INH output pin. (not used)
16	UNISI	I	Serial data input pin. (for SONY BUS)
17	UNISO	O	Serial data output pin. (for SONY BUS)
18	UNICKI	I	Serial clock input pin. (for SONY BUS)
19	UNICKO	O	Serial clock output pin. (for SONY BUS)
20	$\overline{\text{BUSON}}$	O	BUS ON control output. (for SONY BUS)
21	DIMMER	O	Brightness control of LCD display.
22	PW-ON	O	System power supply control pin. "H": power on
23	ILLON	O	Illumination power supply control pin. "H": power on
24	$\overline{\text{AMP-STBY}}$	O	Power amp stand–by control pin.
25	FM/AM	O	FM/AM select pin. "H": FM, "L": AM
26	NIL	I	Not used.
27	$\overline{\text{SYSRST}}$	O	System reset output pin. (for SONY BUS)
28	NIL	I	Not used.
29	VOLSO	O	Electronic volume serial data output pin.
30	VOLCKO	O	Electronic volume serial clock output pin.
31	VOLCE	O	Electronic volume serial chip enable output pin.
32	NIL	I	Not used.
33	VSS	–	GND
34	NIL	I	Not used.
35	TV-SEL	I	TV control function presence select pin.
36	NIL	I	Not used.
37	TEST	I/O	TEST mode direct setting pin.
38	PW-SEL	I	Power select switch input pin.
39	$\overline{\text{NOSESW}}$	I	Front panel removal or attaching detection pin. "L": attached
40	A-MUT	O	Audio mute control pin. "H": mute on
41	$\overline{\text{AMPMUT}}$	O	Power amp mute control pin. "L": mute on
42	AD-ON	O	Power supply control pin for A/D converter.
43-45	NIL	I	Not used.
46	BEEP	O	Beep sound output pin.
47-49	NIL	O	Not used.
50	NIL	I	Not used.
51	NIL	I/O	Not used.

Pin No.	Pin Name	I/O	Function
52-55	NIL	I	Not used.
56	$\overline{\text{ACCIN}}$	I	ACC voltage detect pin.
57	EQ-SEL	I	EQ switch input pin. "L": EQ ON
58,59	NIL	I	Not used.
60	$\overline{\text{RESET}}$	I	Reset input pin.
61	SIRCS	I	Remote control signal input pin.
62	BU-IN	I	BATT voltage detect pin.
63	KEYACK	I	Key input acknowledge.
64-66	NIL	I	Not used.
67	TIMPOL	I	Connected to GND.
68	VDD	–	Power supply.
69	X2	–	Main system clock. (5.0MHz)
70	X1	–	Main system clock. (5.0MHz)
71	GND	–	GND.
72	XT2	–	Sub system clock. (32.768kHz)
73	XT1	–	Sub system clock. (32.768kHz)
74	AVDD	–	Power supply for A/D converter.
75	AVREF	–	Reference of power suplly for A/D converter.
76	KEYIN0	I	Key input. (A/D inpnput)
77	KEYIN1	I	Key input. (A/D inpnput)
78	RC-IN1	I	Rotary commander shift key input.
79	RC-IN2	I	Rotary commander shift key input.
80	NIL	I	Not used.

SECTION 6
EXPLODED VIEWS

NOTE:
- -XX and -X mean standardized parts, so they may have some diffrebce from the orginal one.
- Color Indication of Appearance Parts Example:

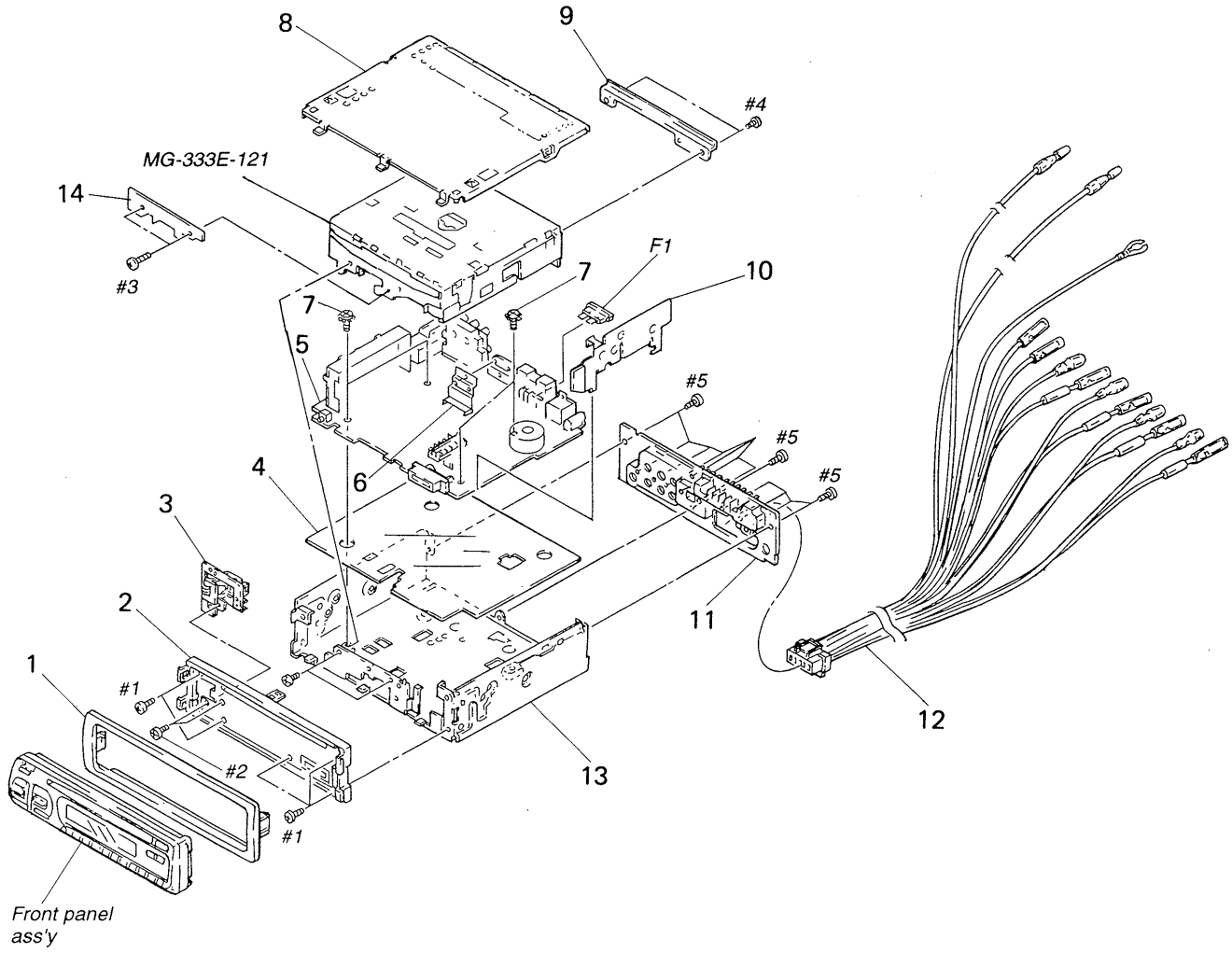
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories and packing materials are given in the last of the electrcal parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only wiyh part number specified.

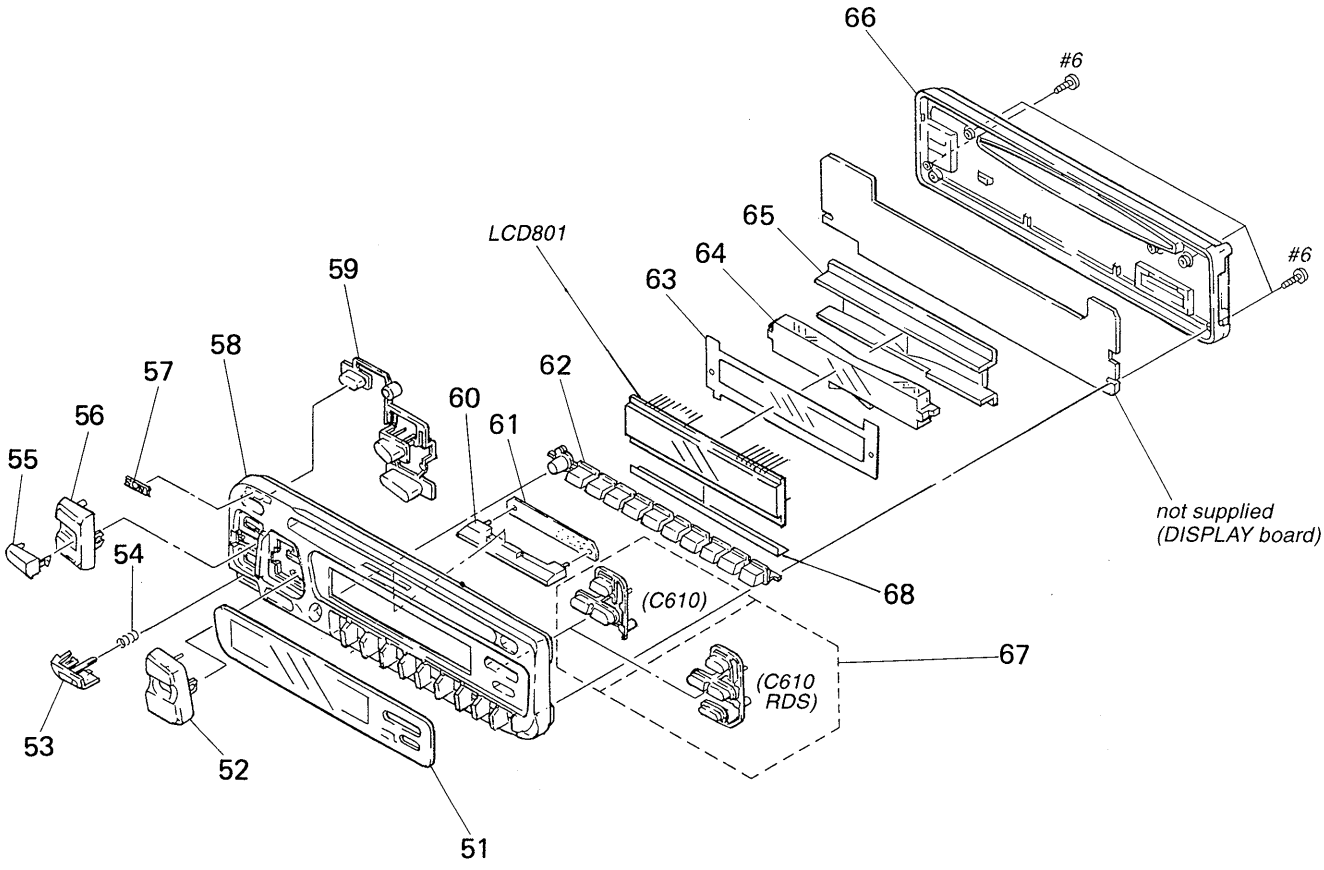
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le neméro spécifié.

(1) GENERAL SECTION



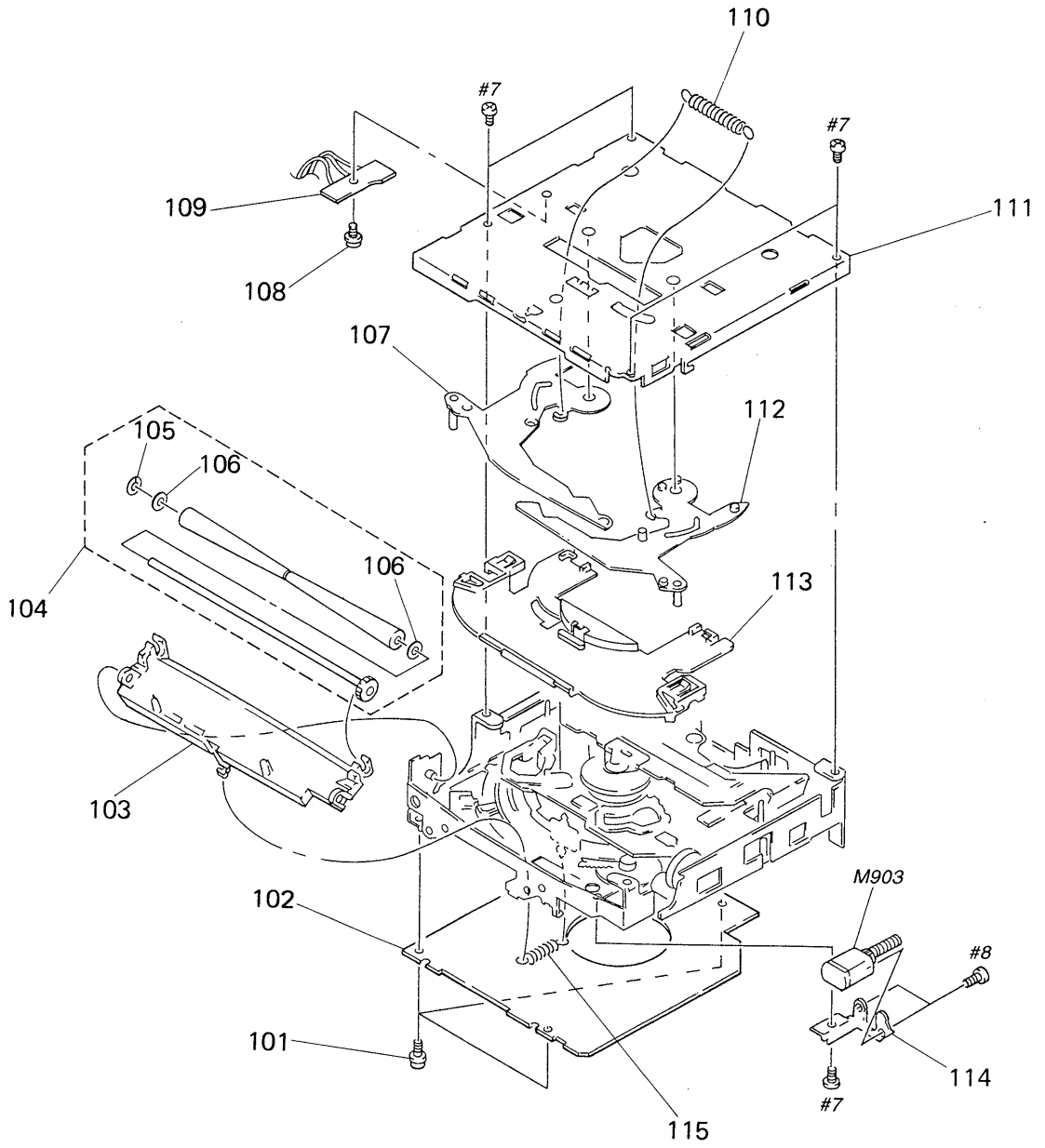
Ref. No.	Part No.	Description	Remark
1	3-932-910-11	COLLAR	
2	X-3371-628-1	PANEL (SUB) ASSY	
3	X-3367-636-1	LOCK ASSY	
* 4	3-932-908-01	SHEET, INSULATING	
* 5	A-3309-109-A	MAIN BOARD, COMPLETE (C610RDS:AEP, UK)	
* 5	A-3309-166-A	MAIN BOARD, COMPLETE (C610RDS:German)	
* 5	A-3309-168-A	MAIN BOARD, COMPLETE (C610)	
* 6	3-932-893-01	BRACKET (IC)	
7	3-915-923-01	SCREW, GROUND POINT	
* 8	X-3371-629-1	COVER ASSY	
* 9	3-932-894-01	BRACKET (MD)	
* 10	3-932-909-01	SINK (IC), HEAT	
* 11	3-932-896-01	SINK, HEAT (C610)	
* 11	3-932-896-11	SINK, HEAT (C610RDS)	
12	1-776-207-31	CORD (WITH CONNECTOR) (C610)	
12	1-776-527-11	CORD (WITH CONNECTOR) (C610RDS)	
* 13	3-932-907-01	CHASSIS	
14	3-935-079-01	BRACKET (MD), FRONT	
F1	1-532-982-11	FUSE (BRADE TYPE) (AUTO FUSE) (15A)	

(2) FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	3-933-330-41	PLATE (WINDOW), INDICATION (C610)	
51	3-933-330-51	PLATE (WINDOW), INDICATION (C610RDS)	
52	3-932-902-01	BUTTON (+, -)	
53	3-932-905-01	BUTTON (RELEASE)	
54	3-914-590-01	SPRING (R2)	
55	3-932-901-01	BUTTON (SOURCE)	
56	3-932-900-01	BUTTON (SEEK) (+, ⏭, ⏩, ⏮, ⏪, -)	
57	3-904-194-01	EMBLEM (NO. 2.5), SONY	
58	3-932-904-31	PANEL, FRONT (C610)	
58	3-932-904-41	PANEL, FRONT (C610RDS)	
59	3-932-903-01	BUTTON (SOUND)	
60	3-932-889-01	PLATE (F), LIGHT GUIDE	
61	3-932-898-01	SHEET (F)	
62	3-932-892-11	BUTTON (10 KEY) (●. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10)	
* 63	3-932-890-01	SHEET, DIFFUSION	
* 64	3-932-888-01	PLATE (LCD), LIGHT GUIDE	
* 65	3-932-887-01	HOLDER (LCD)	
66	3-932-899-11	PANEL, BACK	
67	3-932-897-01	BUTTON (EJECT) (⏏. DSPL. LIST) (C610)	
67	3-932-897-11	BUTTON (EJECT) (⏏. DSPL. LIST. AF/TA) (C610RDS)	
68	3-935-366-01	SHEET (ELECTROSTATIC)	
LCD801	1-801-239-11	DISPLAY PANEL, LIQUID CRYSTAL	

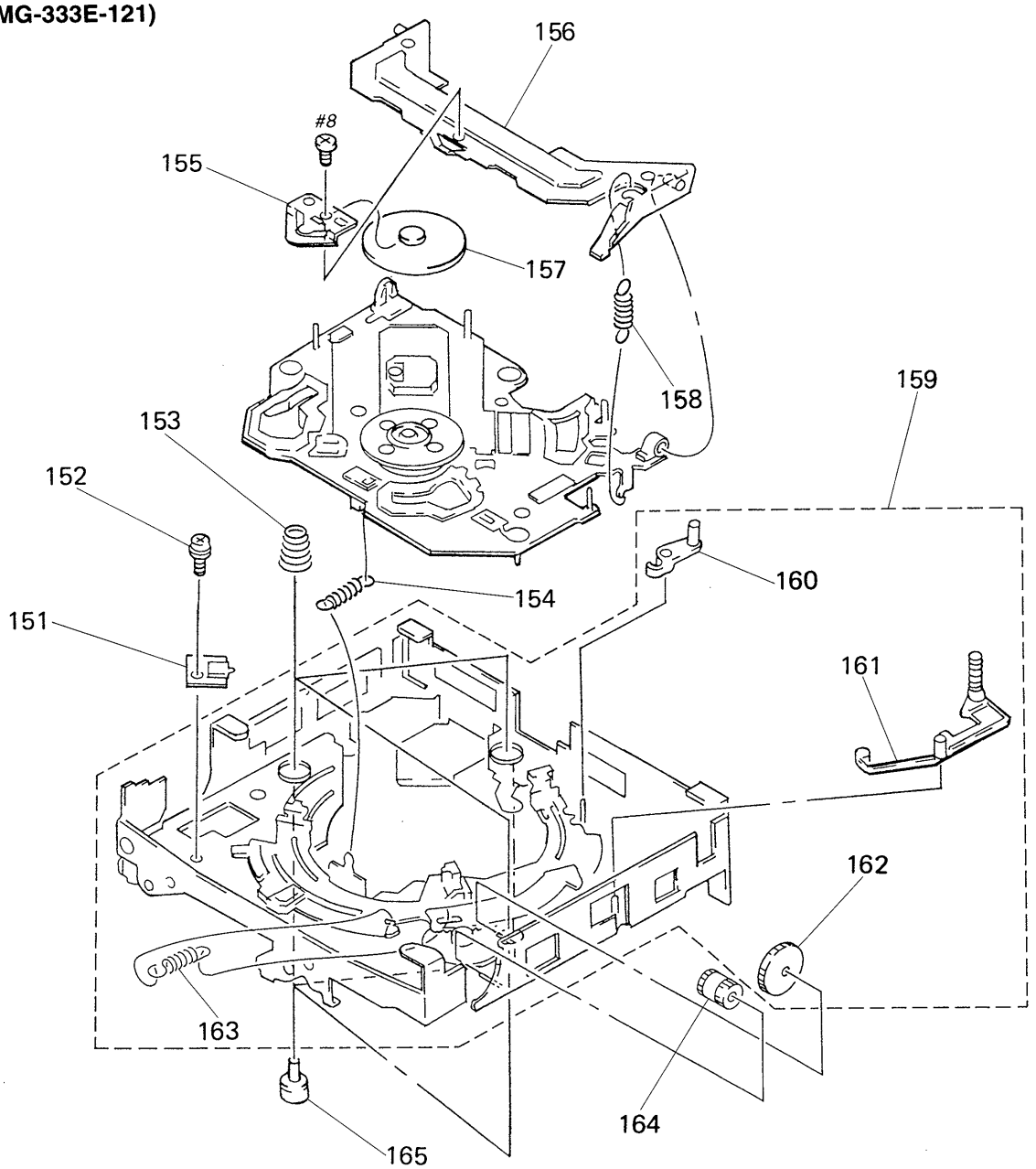
(3) MECHANISM DECK SECTION-1 (MG-333E-121)



Ref. No.	Part No.	Description	Remark
101	3-918-103-01	SCREW	
* 102	A-3309-026-A	SERVO BOARD, COMPLETE	
103	3-931-902-01	ARM (ROLLER)	
104	A-3291-567-A	ROLLER ASSY	
105	3-701-439-11	WASHER	
* 106	3-322-413-01	SPACER, INSULATING	
* 107	X-3371-501-1	LEVER (L) ASSY	
108	3-338-737-01	SCREW (2X3), +PS	

Ref. No.	Part No.	Description	Remark
* 109	1-659-836-11	DISC IN SW BOARD	
110	3-931-909-02	SPRING (LR), TENSION	
* 111	3-931-903-01	CHASSIS (T)	
* 112	X-3371-502-1	LEVER (R) ASSY	
* 113	3-931-908-02	GUIDE (DISC)	
* 114	3-931-899-01	BRACKET (MOTOR)	
115	3-931-916-01	SPRING (RA), TENSION	
M903	A-3291-576-A	MOTOR SUB ASSY, LO (LOADING)	

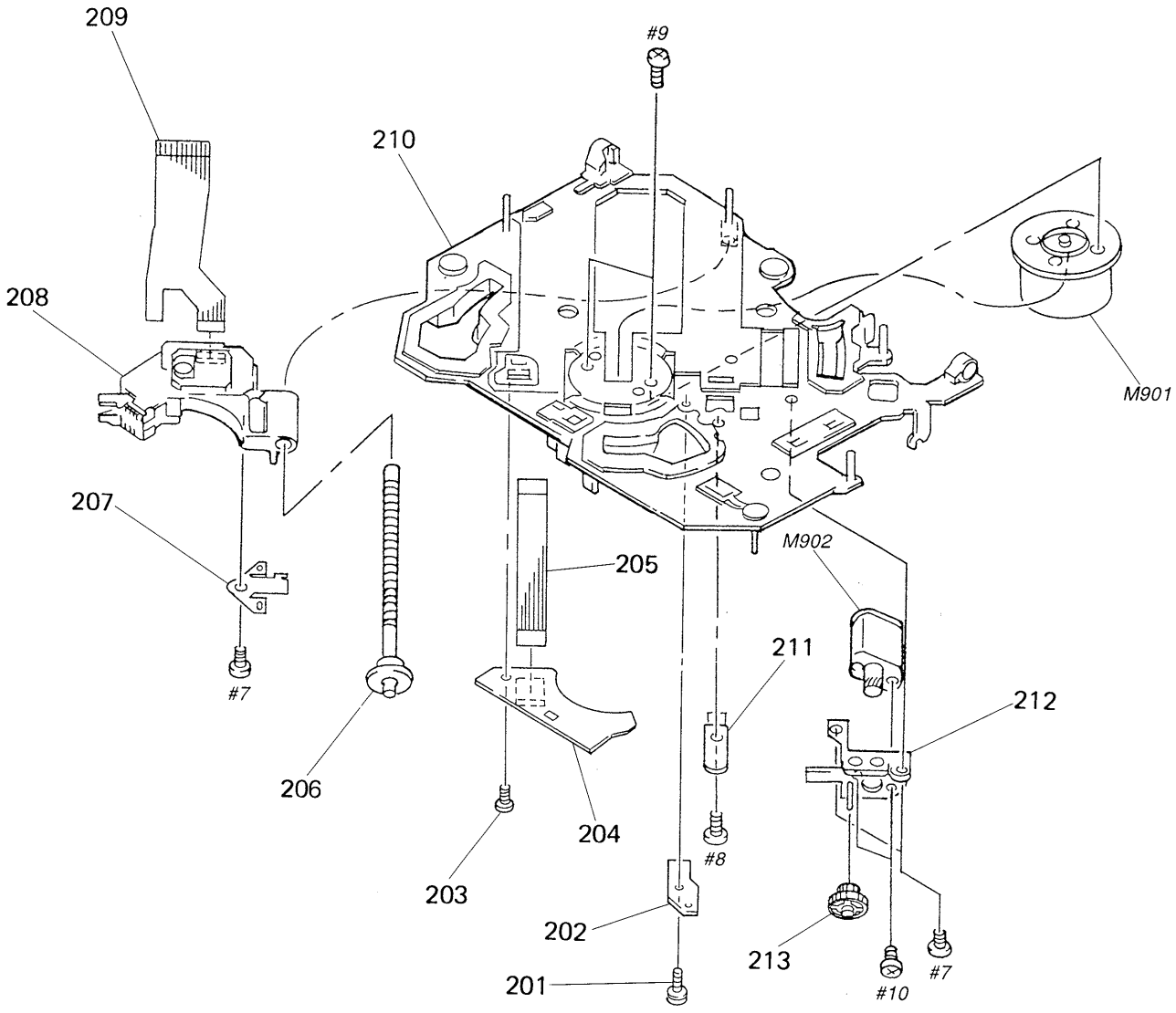
(4) MECHANISM DECK SECTION-2 (MG-333E-121)



Ref. No.	Part No.	Description	Remark
* 151	1-659-837-11	LOAD SW BOARD	
152	3-338-737-01	SCREW (2X3), +PS	
153	3-931-898-01	SPRING (FL), COMPRESSION	
154	3-931-914-01	SPRING (ANGLE), TENSION	
155	3-931-894-01	BRACKET (CP)	
156	3-931-893-01	ARM, CHUCKING	
* 157	3-384-918-01	RETAINER (DISC)	
158	3-931-895-01	SPRING (CH), TENSION	

Ref. No.	Part No.	Description	Remark
159	A-3291-568-A	CHASSIS (M) COMPLETE ASSY	
160	3-931-881-01	LEVER (LOCK)	
161	3-931-879-02	LEVER (D)	
162	3-931-882-02	GEAR (MDL)	
163	3-931-883-01	SPRING (TR), TENSION	
164	3-934-879-01	WHEEL (U), WORM	
165	3-931-897-01	DAMPER (T)	

(5) MECHANISM DECK SECTION-3 (MG-333E-121)



Ref. No.	Part No.	Description	Remark
201	3-338-737-01	SCREW (2X3), +PS	
* 202	1-659-835-11	LIMIT SW BOARD	
203	3-909-607-01	SCREW	
* 204	1-659-834-11	SUB BOARD	
205	1-659-880-11	MOTOR FLEXIBLE BOARD	
206	A-3291-571-A	SHAFT (FEED) ASSY	
207	3-931-834-01	SPRING (FEED), PLATE	
⚠208	8-848-402-02	OPTICAL PICK-UP KSS-520A	
209	1-659-881-11	PICK-UP FLEXIBLE BOARD	
* 210	X-3371-503-1	CHASSIS (OP) (O/S) ASSY	
211	3-931-829-01	SPRING (SL), PLATE	
212	X-3371-504-1	BASE (DRIVING) ASSY	
213	3-931-832-01	GEAR (SL MIDWAY)	
M901	X-3371-665-1	MOTOR ASSY (SPINDLE)	
M902	A-3291-574-A	MOTOR ASSY, SLED	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 7
ELECTRICAL PARTS LIST

DISC IN SW **DISPLAY**

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Abbreviation
  G : German Model
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
*	1-659-836-11	DISC IN SW BOARD			
		**********			
		< SWITCH >			
SW1	1-572-288-11	SWITCH, PUSH (DISC IN)			
SW2	1-572-288-11	SWITCH, PUSH (SELF)			
**********					
		DISPLAY BOARD			
		**********			
*	3-932-887-01	HOLDER (LCD)			
*	3-932-888-01	PLATE (LCD), LIGHT GUIDE			
*	3-932-890-01	SHEET, DIFFUSION			
	3-935-366-01	SHEET (ELECTROSTATIC)			
		< CAPACITOR >			
C801	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C802	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C804	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C847	1-164-222-11	CERAMIC CHIP	0.22uF		25V
		< CONNECTOR >			
CNP801	1-764-423-11	PIN, CONNECTOR 12P			
		< DIODE >			
D801	8-719-404-46	DIODE	MA110		
D802	8-719-977-12	DIODE	DTZ6.8B		
D803	8-719-977-12	DIODE	DTZ6.8B		
D804	8-719-977-12	DIODE	DTZ6.8B		
D805	8-719-420-51	DIODE	MA729		
D806	8-719-422-43	DIODE	MA8051-H		
D807	8-719-422-43	DIODE	MA8051-H		
		< IC >			
IC801	8-759-365-90	IC	LC75824W		
IC802	8-749-012-17	IC	RS-140-T		
		< LIQUID CRYSTAL DISPLAY >			
LCD801	1-801-239-11	DISPLAY PANEL, LIQUID CRYSTAL			

Ref. No.	Part No.	Description			Remark
		< SWITCH >			
LSW801	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (⏏)			
LSW802	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (LIST)			
LSW803	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (DSPL)			
LSW804	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (AF/TA) (C610RDS)			
LSW805	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (10)			
LSW806	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (9)			
LSW807	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (8)			
LSW808	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (7)			
LSW809	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (6)			
LSW810	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (5)			
LSW811	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (4)			
LSW812	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (3)			
LSW813	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (2)			
LSW814	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (1)			
LSW815	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (OFF)			
LSW816	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (SOURCE)			
LSW817	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (+ ⏭ ⏩)			
LSW818	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (⏮ ⏪ -)			
LSW819	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (●)			
LSW820	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (MUTE)			
LSW821	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (SOUND)			
LSW822	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (+)			
LSW823	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (-)			
		< PILOT LAMP >			
PL801	1-517-533-21	LAMP, PILOT (GREEN)			
PL802	1-517-533-21	LAMP, PILOT (GREEN)			
PL803	1-517-533-11	LAMP, PILOT (AMBER)			
PL804	1-517-533-11	LAMP, PILOT (AMBER)			
		< TRANSISTOR >			
Q801	8-729-904-78	TRANSISTOR	DTD113ZK		
Q802	8-729-904-66	TRANSISTOR	DTD113EK		
Q803	8-729-904-78	TRANSISTOR	DTD113ZK		
Q804	8-729-904-66	TRANSISTOR	DTD113EK		
		< RESISTOR >			
R801	1-219-286-11	METAL GLAZE	680	2%	1/16W

DISPLAY **LIMIT SW** **LOAD SW** **MAIN**

SEE ADDITIONAL INFORMATION

Ref. No.	Part No.	Description			Remark
R802	1-219-286-11	METAL GLAZE	680	2%	1/16W
R803	1-219-286-11	METAL GLAZE	680	2%	1/16W
R804	1-218-838-11	METAL GLAZE	1K	2%	1/16W
R805	1-208-687-11	METAL GLAZE	1.5K	2%	1/16W
R806	1-208-687-11	METAL GLAZE	1.5K	2%	1/16W
R807	1-208-691-11	METAL GLAZE	2.2K	2%	1/16W
R808	1-208-695-11	METAL GLAZE	3.3K	2%	1/16W
R809	1-208-699-11	METAL GLAZE	4.7K	2%	1/16W
R810	1-208-703-11	METAL GLAZE	6.8K	2%	1/16W
R811	1-208-707-11	METAL GLAZE	10K	2%	1/16W
R812	1-208-711-11	METAL GLAZE	15K	2%	1/16W
R813	1-208-715-11	METAL GLAZE	22K	2%	1/16W
R814	1-219-286-11	METAL GLAZE	680	2%	1/16W
R815	1-219-286-11	METAL GLAZE	680	2%	1/16W
R816	1-219-286-11	METAL GLAZE	680	2%	1/16W
R817	1-218-838-11	METAL GLAZE	1K	2%	1/16W
R818	1-208-687-11	METAL GLAZE	1.5K	2%	1/16W
R819	1-208-687-11	METAL GLAZE	1.5K	2%	1/16W
R820	1-208-691-11	METAL GLAZE	2.2K	2%	1/16W
R821	1-208-695-11	METAL GLAZE	3.3K	2%	1/16W
R822	1-216-186-00	METAL GLAZE	330	5%	1/8W
R823	1-216-190-00	METAL GLAZE	470	5%	1/8W
R824	1-216-025-00	METAL GLAZE	100	5%	1/10W (C610RDS)
R825	1-216-029-00	METAL CHIP	150	5%	1/10W (C610RDS)
R826	1-216-025-00	METAL GLAZE	100	5%	1/10W
R827	1-216-029-00	METAL CHIP	150	5%	1/10W
R828	1-216-025-00	METAL GLAZE	100	5%	1/10W
R829	1-216-029-00	METAL CHIP	150	5%	1/10W
R830	1-216-033-00	METAL CHIP	220	5%	1/10W
R831	1-216-037-00	METAL CHIP	330	5%	1/10W
R832	1-216-033-00	METAL CHIP	220	5%	1/10W
R833	1-216-037-00	METAL CHIP	330	5%	1/10W
R834	1-216-033-00	METAL CHIP	220	5%	1/10W
R835	1-216-037-00	METAL CHIP	330	5%	1/10W
R836	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R838	1-216-025-00	METAL GLAZE	100	5%	1/10W
R839	1-216-041-00	METAL CHIP	470	5%	1/10W
R840	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R840	1-216-041-00	METAL CHIP	470	5%	1/10W (C610RDS)
R841	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R842	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R843	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R844	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R845	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R846	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R847	1-216-113-00	METAL CHIP	470K	5%	1/10W
R848	1-216-857-11	METAL CHIP	1M	5%	1/16W
R850	1-216-033-00	METAL CHIP	220	5%	1/10W (C610)
R851	1-216-037-00	METAL CHIP	330	5%	1/10W (C610)

****

Ref. No.	Part No.	Description			Remark
*	1-659-835-11	LIMIT SW BOARD			
		**********			
		< SWITCH >			
SW3	1-572-688-11	SWITCH, PUSH (1 KEY) (LIMIT)			
**********					
*	1-659-837-11	LOAD SW BOARD			
		**********			
		< SWITCH >			
SW4	1-572-288-11	SWITCH, PUSH (LOAD)			
**********					
*	A-3309-109-A	MAIN BOARD, COMPLETE (C610RDS:AEP, UK)			
*	A-3309-166-A	MAIN BOARD, COMPLETE (C610RDS:G)			
*	A-3309-168-A	MAIN BOARD, COMPLETE (C610)			
		**********			
*	3-932-893-01	BRACKET (IC)			
*	3-932-909-01	SINK (IC), HEAT			
		< CAPACITOR >			
C1	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C2	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C4	1-124-589-11	ELECT	47uF	20%	16V
C5	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C6	1-136-159-00	FILM	0.033uF	5%	50V (C610RDS)
C6	1-136-169-00	FILM	0.22uF	5%	50V (C610)
C7	1-104-679-11	MYLAR	0.0022uF	5%	50V (C610RDS)
C7	1-136-165-00	FILM	0.1uF	5%	50V (C610)
C8	1-104-683-11	MYLAR	0.0047uF	5%	50V (C610RDS)
C9	1-136-227-11	MYLAR	0.001uF	5%	50V (C610RDS)
C10	1-136-165-00	FILM	0.1uF	5%	50V (C610RDS)
C11	1-136-169-00	FILM	0.22uF	5%	50V (C610RDS)
C12	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C13	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C14	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C15	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C16	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C17	1-124-589-11	ELECT	47uF	20%	16V
C18	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C19	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C20	1-126-933-11	ELECT	100uF	20%	10V
C21	1-163-038-00	CERAMIC CHIP	0.1uF		25V

SEE ADDITIONAL INFORMATION

MAIN

Ref. No.	Part No.	Description			Remark
C22	1-126-933-11	ELECT	100uF	20%	10V
C23	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C24	1-126-933-11	ELECT	100uF	20%	10V
C25	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C32	1-164-346-11	CERAMIC CHIP	1uF		16V
C33	1-124-455-00	ELECT	100uF	20%	16V
C37	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	50V
C38	1-124-234-00	ELECT	22uF	20%	16V
C39	1-164-222-11	CERAMIC CHIP	0. 22uF		25V
C51	1-164-004-11	CERAMIC CHIP	0. 1uF	10%	25V (C610RDS)
C51	1-164-343-11	CERAMIC CHIP	0. 056uF	10%	25V (C610)
C53	1-107-682-11	CERAMIC CHIP	1uF	10%	16V
C55	1-163-023-00	CERAMIC CHIP	0. 015uF	5%	50V (C610RDS:G)
C55	1-163-037-11	CERAMIC CHIP	0. 022uF	10%	25V (C610RDS:AEP, UK)
C55	1-163-809-11	CERAMIC CHIP	0. 047uF	10%	25V (C610)
C59	1-107-682-11	CERAMIC CHIP	1uF	10%	16V
C63	1-107-682-11	CERAMIC CHIP	1uF	10%	16V
C65	1-163-023-00	CERAMIC CHIP	0. 015uF	5%	50V (C610RDS:G)
C65	1-163-037-11	CERAMIC CHIP	0. 022uF	10%	25V (C610RDS:AEP, UK)
C65	1-163-809-11	CERAMIC CHIP	0. 047uF	10%	25V (C610)
C69	1-107-682-11	CERAMIC CHIP	1uF	10%	16V
C102	1-126-161-11	ELECT	2. 2uF	20%	50V
C103	1-104-329-11	CERAMIC CHIP	0. 1uF	10%	50V
C105	1-163-063-00	CERAMIC CHIP	0. 022uF	10%	50V
C106	1-124-257-00	ELECT	2. 2uF	20%	50V
C107	1-163-809-11	CERAMIC CHIP	0. 047uF	10%	25V
C108	1-163-017-00	CERAMIC CHIP	0. 0047uF	5%	50V
C109	1-104-946-11	ELECT	10uF	20%	35V
C110	1-163-017-00	CERAMIC CHIP	0. 0047uF	5%	50V
C111	1-104-946-11	ELECT	10uF	20%	35V
C112	1-164-489-11	CERAMIC CHIP	0. 22uF	10%	16V
C113	1-104-946-11	ELECT	10uF	20%	35V
C114	1-104-946-11	ELECT	10uF	20%	35V
C122	1-126-161-11	ELECT	2. 2uF	20%	50V
C123	1-126-161-11	ELECT	2. 2uF	20%	50V
C124	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	50V
C125	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	50V
C126	1-136-165-00	FILM	0. 1uF	5%	50V
C127	1-136-165-00	FILM	0. 1uF	5%	50V
C128	1-136-165-00	FILM	0. 1uF	5%	50V
C129	1-136-165-00	FILM	0. 1uF	5%	50V
C130	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	50V
C131	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	50V
C132	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	50V

Ref. No.	Part No.	Description			Remark
C202	1-126-161-11	ELECT	2. 2uF	20%	50V
C203	1-104-329-11	CERAMIC CHIP	0. 1uF	10%	50V
C205	1-163-063-00	CERAMIC CHIP	0. 022uF	10%	50V
C206	1-124-257-00	ELECT	2. 2uF	20%	50V
C207	1-163-809-11	CERAMIC CHIP	0. 047uF	10%	25V
C208	1-163-017-00	CERAMIC CHIP	0. 0047uF	5%	50V
C209	1-104-946-11	ELECT	10uF	20%	35V
C210	1-163-017-00	CERAMIC CHIP	0. 0047uF	5%	50V
C211	1-104-946-11	ELECT	10uF	20%	35V
C212	1-164-489-11	CERAMIC CHIP	0. 22uF	10%	16V
C213	1-104-946-11	ELECT	10uF	20%	35V
C214	1-104-946-11	ELECT	10uF	20%	35V
C222	1-126-161-11	ELECT	2. 2uF	20%	50V
C223	1-126-161-11	ELECT	2. 2uF	20%	50V
C224	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	50V
C225	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	50V
C226	1-115-326-00	FILM	0. 1uF	5%	50V
C227	1-136-165-00	FILM	0. 1uF	5%	50V
C228	1-115-326-00	FILM	0. 1uF	5%	50V
C229	1-115-326-00	FILM	0. 1uF	5%	50V
C230	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	50V
C231	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	50V
C232	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	50V
C301	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	50V
C302	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C303	1-126-277-11	ELECT	100uF	20%	10V
C304	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C305	1-107-889-11	ELECT	220uF	20%	10V
C306	1-124-234-00	ELECT	22uF	20%	16V
C307	1-164-346-11	CERAMIC CHIP	1uF		16V
C311	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C312	1-126-163-11	ELECT	4. 7uF	20%	50V
C313	1-124-257-00	ELECT	2. 2uF	20%	50V
C321	1-164-232-11	CERAMIC CHIP	0. 01uF		50V
C322	1-164-232-11	CERAMIC CHIP	0. 01uF		50V
C324	1-115-469-21	CAPACITOR	4700uF		16V
C325	1-136-165-00	FILM	0. 1uF	5%	50V
C327	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C328	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C329	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C330	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C331	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C402	1-104-952-11	ELECT	22uF	20%	16V
C404	1-104-952-11	ELECT	22uF	20%	16V
C405	1-165-319-11	CERAMIC CHIP	0. 1uF		50V
C406	1-165-319-11	CERAMIC CHIP	0. 1uF		50V
C407	1-165-319-11	CERAMIC CHIP	0. 1uF		50V
C408	1-165-319-11	CERAMIC CHIP	0. 1uF		50V

MAIN

SEE ADDITIONAL INFORMATION

Ref. No.	Part No.	Description			Remark
C409	1-128-428-11	ELECT	10uF	20%	35V
C410	1-128-428-11	ELECT	10uF	20%	35V
C411	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C412	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C413	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C414	1-163-215-00	CERAMIC CHIP	0.0027uF	5%	50V
C415	1-163-193-00	CERAMIC CHIP	330PF	5%	50V
C416	1-163-215-00	CERAMIC CHIP	0.0027uF	5%	50V
C417	1-163-193-00	CERAMIC CHIP	330PF	5%	50V
C418	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C419	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C420	1-128-428-11	ELECT	10uF	20%	35V
C421	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C422	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V (C610)
C423	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (C610)
C424	1-104-945-11	ELECT	4.7uF	20%	35V
C451	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C452	1-107-889-11	ELECT	220uF	20%	16V
C453	1-107-889-11	ELECT	220uF	20%	16V
C454	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C455	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C458	1-126-277-11	ELECT	100uF	20%	10V
C501	1-163-127-00	CERAMIC CHIP	270PF	5%	50V (C610RDS)
C502	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (C610RDS)
C503	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (C610RDS)
C504	1-163-038-00	CERAMIC CHIP	0.1uF		25V (C610RDS)
C505	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V (C610RDS)
C506	1-126-157-11	ELECT	10uF	20%	16V (C610RDS)
C507	1-164-232-11	CERAMIC CHIP	0.01uF		50V (C610RDS)
C508	1-163-237-11	CERAMIC CHIP	27PF	5%	50V (C610RDS)
C509	1-163-237-11	CERAMIC CHIP	27PF	5%	50V (C610RDS)
C601	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C602	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C603	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C604	1-163-063-00	CERAMIC CHIP	0.022uF	10%	50V
C607	1-126-154-11	ELECT	47uF	20%	6.3V
C608	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C651	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C652	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C700	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V (C610)
C701	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C702	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C703	1-126-154-11	ELECT	47uF	20%	6.3V
C704	1-163-091-00	CERAMIC CHIP	8PF		50V
C705	1-163-091-00	CERAMIC CHIP	8PF		50V
C706	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C751	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C752	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C771	1-163-038-00	CERAMIC CHIP	0.1uF		25V (C610)
C901	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C902	1-126-157-11	ELECT	10uF	20%	16V
C903	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C904	1-126-157-11	ELECT	10uF	20%	16V
C905	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C906	1-126-157-11	ELECT	10uF	20%	16V
C907	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C908	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C910	1-126-163-11	ELECT	4.7uF	20%	50V
C911	1-126-301-11	ELECT	1uF	20%	50V
C912	1-125-701-11	CAPACITOR	0.047uF		5.5V
C913	1-124-455-00	ELECT	100uF	20%	16V
C914	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C951	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C952	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C954	1-164-344-11	CERAMIC CHIP	0.068uF	10%	25V (C610RDS)

< CONNECTOR/JACK >

CNJ502	1-764-808-11	JACK (ANT IN) (C610)
CNJ502	1-770-279-11	JACK, ANTENNA (ISO) (ANT IN) (C610RDS)
CNJ901	1-566-822-41	JACK (REMOTE IN)
CNP301	1-774-701-11	PIN, CONNECTOR 16P)
CNP302	1-774-700-11	JACK, PIN 6P (BUS AUDIO IN/LINE OUT)
CNP504	1-764-617-12	PIN, CONNECTOR (PC BOARD) 30P
CNP751	1-580-907-31	PLUG, CONNECTOR
CNP901	1-764-422-11	PLUG, CONNECTOR 12P

< DIODE >

D1	8-719-981-59	DIODE	FC805
D3	8-719-977-03	DIODE	DTZ5.6B
D4	1-519-504-11	DIODE	GAP, DISCHARGE
D5	8-719-422-97	DIODE	MA8091-M
D50	8-719-421-24	DIODE	MA8039-H (C610RDS)
D301	8-719-421-24	DIODE	MA8039-H
D302	8-719-421-24	DIODE	MA8039-H
D310	8-719-049-38	DIODE	1N5404TU
D312	8-719-053-18	DIODE	1SR154-400TE-25
D316	8-719-053-18	DIODE	1SR154-400TE-25
D451	8-719-422-97	DIODE	MA8091-M
D452	8-719-977-03	DIODE	DTZ5.6B

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Ref. No.	Part No.	Description	Remark
D601	8-719-050-86	DIODE 1SS133T-91S	
D701	8-719-404-46	DIODE MA110	
D751	8-719-914-43	DIODE DAN202K	
D752	8-719-422-64	DIODE MA8062-M	
D753	8-719-422-64	DIODE MA8062-M	
D754	8-719-977-12	DIODE DTZ6.8B	
D755	8-719-422-64	DIODE MA8062-M	
D760	8-719-422-76	DIODE MA8075-M	
D901	8-719-109-97	DIODE RD6.8ES-B2	
D902	8-719-801-78	DIODE 1SS184	
D904	8-719-977-12	DIODE DTZ6.8B	
D905	8-719-914-44	DIODE DAP202K	
D906	8-719-109-97	DIODE RD6.8ES-B2	
D907	8-719-977-12	DIODE DTZ6.8B	
D908	8-719-109-97	DIODE RD6.8ES-B2	
D909	8-719-109-97	DIODE RD6.8ES-B2	
D910	8-719-109-97	DIODE RD6.8ES-B2	
D911	8-719-109-97	DIODE RD6.8ES-B2	
D912	8-719-109-97	DIODE RD6.8ES-B2	
D914	8-719-109-97	DIODE RD6.8ES-B2	
D915	8-719-109-97	DIODE RD6.8ES-B2	
D916	8-719-404-46	DIODE MA110	
D920	8-719-053-18	DIODE 1SR154-400TE-25	
D921	8-719-053-18	DIODE 1SR154-400TE-25	
D922	8-719-022-90	DIODE MA8160M	
D925	8-719-404-46	DIODE MA110	
D951	8-719-914-44	DIODE DAP202K	
D952	8-719-423-23	DIODE MA8110-M	
D954	8-719-914-43	DIODE DAN202K	
D955	8-719-404-46	DIODE MA110 (C610)	
		< FERRITE BEAD >	
FB402	1-500-244-21	BEAD, FERRITE (CHIP) (C610)	
		< IC >	
IC1	8-759-242-66	IC TC4W66F (C610RDS)	
IC2	8-759-711-82	IC NJM4580E	
IC3	8-759-823-81	IC LC7216M	
IC201	8-759-711-82	IC NJM4580E	
IC202	8-759-711-82	IC NJM4580E	
IC301	8-752-075-48	IC CXA1946AQ-T6	
IC304	8-759-369-41	IC HA13155	
IC401	8-759-185-27	IC PCM1710U-A	
IC402	8-759-700-94	IC NJM5532M-T1	
IC455	8-759-711-58	IC NJM78L05UA	
IC501	8-759-163-63	IC TDA7330BD-013TR (C610RDS)	
IC601	8-759-381-32	IC MN1883220S4B1 (C610)	
IC601	8-759-379-99	IC MN1883220S4A1 (C610RDS)	
IC651	8-759-075-66	IC TA75S01F (C610RDS)	
IC701	8-759-387-68	IC uPD78P058GC-175-3B9	
IC751	8-759-096-16	IC MM1175XFF	
IC901	8-759-347-49	IC BA3918-V2	
IC902	8-759-097-36	IC RH5VA40AA	
IC903	8-759-344-91	IC RN5VD23AA-T1 (C610)	
		< CHIP CONDUCTOR >	
JC71	1-216-295-00	CONDUCTOR, CHIP (2012)	
JC101	1-216-296-00	CONDUCTOR, CHIP (3216)	
JC102	1-216-296-00	CONDUCTOR, CHIP (3216)	
JC103	1-216-295-00	CONDUCTOR, CHIP (2012)	
JC104	1-216-295-00	CONDUCTOR, CHIP (2012)	
JC201	1-216-295-00	CONDUCTOR, CHIP (2012)	
JC202	1-216-296-00	CONDUCTOR, CHIP (3216)	
JC203	1-216-295-00	CONDUCTOR, CHIP (2012)	
JC204	1-216-295-00	CONDUCTOR, CHIP (2012)	
JC301	1-216-295-00	CONDUCTOR, CHIP (2012)	
JC302	1-216-295-00	CONDUCTOR, CHIP (2012)	
JC306	1-216-295-00	CONDUCTOR, CHIP (2012)	
JC333	1-216-295-00	CONDUCTOR, CHIP (2012)	
JC601	1-216-295-00	CONDUCTOR, CHIP (2012)	
JC651	1-216-295-00	CONDUCTOR, CHIP (2012) (C610)	
		< COIL >	
L1	1-410-973-11	INDUCTOR 22uH	
L300	1-411-670-11	COIL, CHOKE	
L501	1-410-971-11	INDUCTOR 10uH (C610RDS)	
L601	1-410-973-11	INDUCTOR 22uH	
L701	1-410-973-11	INDUCTOR 22uH	
		< TRANSISTOR >	
Q2	8-729-421-22	TRANSISTOR UN2211 (C610RDS)	
Q3	8-729-021-94	TRANSISTOR 2SK1657-T1B	
Q52	8-729-920-21	TRANSISTOR DTC314TKH04 (C610RDS)	
Q62	8-729-920-21	TRANSISTOR DTC314TKH04 (C610RDS)	
Q101	8-729-920-21	TRANSISTOR DTC314TKH04	
Q102	8-729-920-21	TRANSISTOR DTC314TKH04	
Q201	8-729-920-21	TRANSISTOR DTC314TKH04	
Q202	8-729-920-21	TRANSISTOR DTC314TKH04	
Q301	8-729-020-67	TRANSISTOR XN1A312-TX	
Q451	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q453	8-729-019-00	TRANSISTOR 2SD2394-G	
Q454	8-729-020-67	TRANSISTOR XN1A312-TX	
Q455	8-729-216-22	TRANSISTOR 2SA1162-G	
Q456	8-729-421-22	TRANSISTOR UN2211	
Q501	8-729-020-67	TRANSISTOR XN1A312-TX (C610RDS)	
Q556	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q557	8-729-106-68	TRANSISTOR 2SD1615A-GP	

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Ref. No.	Part No.	Description			Remark
Q600	8-729-120-28	TRANSISTOR	2SC1623-L5L6		(C610RDS)
Q701	8-729-424-18	TRANSISTOR	UN2113-TX		
Q751	8-729-402-13	TRANSISTOR	XN1501		
Q752	8-729-424-08	TRANSISTOR	UN2111		
Q760	8-729-421-22	TRANSISTOR	UN2211		
Q761	8-729-106-68	TRANSISTOR	2SD1615A-GP		
Q900	8-729-421-22	TRANSISTOR	UN2211		
Q902	8-729-030-98	TRANSISTOR	2PD601A-115		
Q951	8-729-020-67	TRANSISTOR	XN1A312-TX		
Q952	8-729-019-00	TRANSISTOR	2SD2394-G		
Q953	8-729-106-60	TRANSISTOR	2SB1115A		
Q954	8-729-424-59	TRANSISTOR	UN2212		
Q957	8-729-024-31	TRANSISTOR	XN1111-TX		
		< RESISTOR >			
R1	1-216-073-00	METAL CHIP	10K	5%	1/10W
R2	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R4	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R5	1-216-089-00	METAL GLAZE	47K	5%	1/10W (C610RDS)
R6	1-216-089-00	METAL GLAZE	47K	5%	1/10W (C610RDS)
R7	1-216-037-00	METAL CHIP	330	5%	1/10W
R8	1-216-073-00	METAL CHIP	10K	5%	1/10W
R9	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R10	1-216-073-00	METAL CHIP	10K	5%	1/10W (C610)
R10	1-216-075-00	METAL CHIP	12K	5%	1/10W (C610RDS)
R11	1-216-073-00	METAL CHIP	10K	5%	1/10W (C610RDS)
R12	1-216-065-00	METAL CHIP	4.7K	5%	1/10W (C610RDS)
R13	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R14	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R16	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R17	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R18	1-216-029-00	METAL CHIP	150	5%	1/10W
R19	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R51	1-216-061-00	METAL CHIP	3.3K	5%	1/10W (C610RDS)
R51	1-216-067-00	METAL CHIP	5.6K	5%	1/10W (C610)
R53	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R54	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (C610)
R54	1-216-065-00	METAL CHIP	4.7K	5%	1/10W (C610RDS:AEP, UK)
R54	1-216-073-00	METAL CHIP	10K	5%	1/10W (C610RDS:G)
R55	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R56	1-216-073-00	METAL CHIP	10K	5%	1/10W
R57	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R62	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R63	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R64	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (C610)
R64	1-216-065-00	METAL CHIP	4.7K	5%	1/10W (C610RDS:AEP, UK)
R64	1-216-073-00	METAL CHIP	10K	5%	1/10W (C610RDS:G)
R65	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R66	1-216-073-00	METAL CHIP	10K	5%	1/10W
R67	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R100	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R103	1-216-073-00	METAL CHIP	10K	5%	1/10W
R104	1-216-073-00	METAL CHIP	10K	5%	1/10W
R109	1-216-033-00	METAL CHIP	220	5%	1/10W
R110	1-216-033-00	METAL CHIP	220	5%	1/10W
R112	1-216-081-00	METAL CHIP	22K	5%	1/10W
R113	1-216-081-00	METAL CHIP	22K	5%	1/10W
R121	1-216-073-00	METAL CHIP	10K	5%	1/10W
R122	1-216-073-00	METAL CHIP	10K	5%	1/10W
R123	1-216-113-00	METAL CHIP	470K	5%	1/10W
R124	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R125	1-216-113-00	METAL CHIP	470K	5%	1/10W
R126	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R127	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R128	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R129	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R130	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R155	1-216-081-00	METAL CHIP	22K	5%	1/10W
R156	1-216-081-00	METAL CHIP	22K	5%	1/10W
R157	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R158	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R200	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R203	1-216-073-00	METAL CHIP	10K	5%	1/10W
R204	1-216-073-00	METAL CHIP	10K	5%	1/10W
R209	1-216-033-00	METAL CHIP	220	5%	1/10W
R210	1-216-033-00	METAL CHIP	220	5%	1/10W
R212	1-216-081-00	METAL CHIP	22K	5%	1/10W
R213	1-216-081-00	METAL CHIP	22K	5%	1/10W
R221	1-216-073-00	METAL CHIP	10K	5%	1/10W
R222	1-216-073-00	METAL CHIP	10K	5%	1/10W
R223	1-216-853-11	METAL CHIP	470K	5%	1/16W
R224	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R225	1-216-853-11	METAL CHIP	470K	5%	1/16W
R226	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R227	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R228	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R229	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R230	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R253	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R254	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R255	1-216-081-00	METAL CHIP	22K	5%	1/10W
R256	1-216-081-00	METAL CHIP	22K	5%	1/10W

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Ref. No.	Part No.	Description			Remark
R270	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R271	1-216-218-00	METAL GLAZE	6.8K	5%	1/8W
R272	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R273	1-216-218-00	METAL GLAZE	6.8K	5%	1/8W
R301	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R302	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R303	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R304	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R305	1-216-073-00	METAL CHIP	10K	5%	1/10W
R401	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R402	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R403	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R404	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R405	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R406	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R407	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R408	1-216-218-00	METAL GLAZE	6.8K	5%	1/8W
R410	1-216-805-11	METAL CHIP	47	5%	1/16W
R411	1-216-864-11	METAL CHIP	0	5%	1/16W
R412	1-216-037-00	METAL CHIP	330	5%	1/10W
R413	1-216-037-00	METAL CHIP	330	5%	1/10W
R415	1-216-119-00	METAL CHIP	820K	5%	1/10W
R451	1-216-025-00	METAL GLAZE	100	5%	1/10W
R454	1-216-186-00	METAL GLAZE	330	5%	1/8W
R455	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R456	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R457	1-216-073-00	METAL CHIP	10K	5%	1/10W
R458	1-216-073-00	METAL CHIP	10K	5%	1/10W
R501	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (C610RDS)
R502	1-216-129-00	METAL CHIP	2.2M	5%	1/10W (C610RDS)
R602	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R603	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R604	1-216-073-00	METAL CHIP	10K	5%	1/10W
R605	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R606	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R609	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R610	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R611	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R612	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R615	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R616	1-216-097-00	METAL GLAZE	100K	5%	1/10W (C610)
R617	1-216-089-00	METAL GLAZE	47K	5%	1/10W (C610RDS)
R619	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R620	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R621	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R622	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R623	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R625	1-216-097-00	METAL GLAZE	100K	5%	1/10W (C610)
R626	1-216-089-00	METAL GLAZE	47K	5%	1/10W (C610RDS)

Ref. No.	Part No.	Description			Remark
R651	1-216-107-00	METAL CHIP	270K	5%	1/10W
R652	1-216-119-00	METAL CHIP	820K	5%	1/10W
R653	1-216-097-00	METAL GLAZE	100K	5%	1/10W (C610)
R654	1-216-105-00	METAL GLAZE	220K	5%	1/10W (C610)
R655	1-216-081-00	METAL CHIP	22K	5%	1/10W (C610RDS)
R656	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R657	1-216-089-00	METAL GLAZE	47K	5%	1/10W (C610RDS)
R710	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R711	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R712	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R718	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R721	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R724	1-216-109-00	METAL CHIP	330K	5%	1/10W
R728	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R729	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R731	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R732	1-239-444-11	NETWORK RESISTOR (CHIP)			220K
R751	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R752	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R753	1-216-073-00	METAL CHIP	10K	5%	1/10W
R754	1-216-025-00	METAL GLAZE	100	5%	1/10W
R755	1-216-809-11	METAL CHIP	100	5%	1/16W
R756	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R757	1-216-017-00	METAL GLAZE	47	5%	1/10W
R758	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R759	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R761	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R762	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R770	1-216-089-00	METAL GLAZE	47K	5%	1/10W (C610RDS)
R771	1-216-113-00	METAL GLAZE	470K	5%	1/10W (C610)
R904	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R908	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R909	1-216-073-00	METAL CHIP	10K	5%	1/10W
R910	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R911	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R912	1-216-081-00	METAL CHIP	22K	5%	1/10W
R913	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R914	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R915	1-208-462-41	METAL GLAZE	10K	2%	1/10W
R916	1-208-462-41	METAL GLAZE	10K	2%	1/10W
R917	1-216-025-00	METAL GLAZE	100	5%	1/10W
R918	1-216-025-00	METAL GLAZE	100	5%	1/10W
R920	1-216-025-00	METAL GLAZE	100	5%	1/10W
R921	1-216-025-00	METAL GLAZE	100	5%	1/10W
R922	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R923	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R924	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R925	1-216-049-00	METAL GLAZE	1K	5%	1/10W

MAIN **SERVO**

SEE ADDITIONAL INFORMATION

Ref. No.	Part No.	Description			Remark
R927	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R928	1-208-462-41	METAL GLAZE	10K	2%	1/10W
R929	1-208-462-41	METAL GLAZE	10K	2%	1/10W
R930	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R950	1-216-033-00	METAL CHIP	220	5%	1/10W
R951	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R952	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R953	1-216-073-00	METAL CHIP	10K	5%	1/10W
R954	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R955	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R961	1-216-085-00	METAL CHIP	33K	5%	1/10W (C610RDS)
R962	1-216-091-00	METAL CHIP	56K	5%	1/10W (C610RDS)
		< VARIABLE RESISTOR >			
RV651	1-238-716-11	RES, ADJ, METAL GLAZE 100K (C610RDS)			
		< SWITCH >			
SW701	1-571-478-11	SWITCH, SLIDE (POWER SEL)			
SW901	1-692-431-21	SWITCH, TACTILE (RESET)			
		< TUNER >			
TU1	A-3282-012-A	TUNER UNIT			
		< VIBRATOR >			
X1	1-577-126-51	VIBRATOR, CRYSTAL (7.2MHz)			
X401	1-579-280-31	VIBRATOR, CRYSTAL (16.9344MHz)			
X501	1-760-556-11	VIBRATOR, CRYSTAL (4.332MHz) (C610RDS)			
X601	1-579-952-21	VIBRATOR, CERAMIC (8MHz)			
X701	1-760-489-11	VIBRATOR, CERAMIC (5MHz)			
X702	1-579-886-21	VIBRATOR, CRYSTAL (32.768KHz)			
**********					
*	A-3309-026-A	SERVO BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C2	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C3	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C101	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C102	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V
C105	1-111-253-11	TANTAL. CHIP	100uF	20%	6.3V
C106	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C107	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V
C108	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C109	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V
C110	1-163-241-11	CERAMIC CHIP	39PF	5%	50V
C111	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C112	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C113	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C114	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C115	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V
C116	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C117	1-135-145-11	TANTALUM CHIP	0.47uF	10%	35V
C118	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C119	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C120	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C121	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C122	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C123	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C124	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V
C125	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V
C126	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C203	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C204	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C205	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C206	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C207	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C208	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C209	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C301	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C302	1-110-456-11	SOLID CHIP	47uF	20%	16V
C303	1-164-336-11	CERAMIC CHIP	0.33uF		25V
C304	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C305	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C306	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C307	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C308	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C309	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V
C310	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C311	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C312	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C313	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C330	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C331	1-110-456-11	SOLID CHIP	47uF	20%	16V
C332	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C334	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C335	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C336	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
		< CONNECTOR >			
CN1	1-764-616-12	HOUSING, CONNECTOR (PC BOARD) 30P			
CN2	1-766-491-11	CONNECTOR, FPC 17P			
CN3	1-764-439-21	CONNECTOR, FPC 11P			
CN4	1-770-347-21	CONNECTOR, FPC 6P			
CN5	1-569-775-21	PIN, CONNECTOR 5P			
CN6	1-580-055-21	PIN, CONNECTOR 2P			

Ref. No.	Part No.	Description			Remark
		< IC >			
IC1	8-752-069-29	IC CXA1791N			
IC2	8-752-369-78	IC CXD2545Q			
IC3	8-752-373-27	IC CXD2512AQ			
IC4	8-759-342-14	IC HM514400BLTT-7			
IC5	8-752-871-25	IC CXP84332-017Q			
IC6	8-759-823-87	IC LB1638M			
IC7	8-759-370-18	IC BA6797FP-E2			
IC8	8-759-349-32	IC BA6840AFS-T1			
		< COIL >			
L101	1-412-060-11	INDUCTOR CHIP	22uH		
L102	1-412-060-11	INDUCTOR CHIP	22uH		
L103	1-412-060-11	INDUCTOR CHIP	22uH		
		< TRANSISTOR >			
Q1	8-729-901-05	TRANSISTOR	DTA124EK		
Q2	8-729-011-95	TRANSISTOR	RN-2426		
Q3	8-729-141-48	TRANSISTOR	2SB624-BV345		
		< RESISTOR >			
R101	1-216-295-00	CONDUCTOR, CHIP	(2012)		
R102	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R103	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R104	1-216-103-00	METAL GLAZE	180K	5%	1/10W
R105	1-216-103-00	METAL GLAZE	180K	5%	1/10W
R106	1-216-001-00	METAL CHIP	10	5%	1/10W
R108	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W
R109	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W
R110	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R111	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R112	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R113	1-216-073-00	METAL CHIP	10K	5%	1/10W
R114	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R115	1-216-073-00	METAL CHIP	10K	5%	1/10W
R116	1-216-073-00	METAL CHIP	10K	5%	1/10W
R117	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R118	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R119	1-216-121-00	METAL GLAZE	1M	5%	1/10W
R120	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R121	1-216-073-00	METAL CHIP	10K	5%	1/10W
R122	1-216-033-00	METAL CHIP	220	5%	1/10W
R123	1-216-033-00	METAL CHIP	220	5%	1/10W
R124	1-216-033-00	METAL CHIP	220	5%	1/10W
R125	1-216-085-00	METAL CHIP	33K	5%	1/10W
R127	1-216-033-00	METAL CHIP	220	5%	1/10W
R129	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R132	1-216-065-00	METAL CHIP	4.7K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R133	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R140	1-216-073-00	METAL CHIP	10K	5%	1/10W
R141	1-216-081-00	METAL CHIP	22K	5%	1/10W
R142	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R143	1-216-085-00	METAL CHIP	33K	5%	1/10W
R203	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R204	1-216-073-00	METAL CHIP	10K	5%	1/10W
R207	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R208	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R209	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R210	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R211	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R212	1-216-295-00	CONDUCTOR, CHIP	(2012)		
R213	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R217	1-216-081-00	METAL CHIP	22K	5%	1/10W
R218	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R301	1-216-025-00	METAL GLAZE	100	5%	1/10W
R302	1-216-037-00	METAL CHIP	330	5%	1/10W
R303	1-216-308-00	METAL CHIP	4.7	5%	1/10W
R304	1-208-814-11	METAL CHIP	22K	0.50%	1/10W
R305	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R306	1-208-814-11	METAL CHIP	22K	0.50%	1/10W
R307	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R308	1-208-814-11	METAL CHIP	22K	0.50%	1/10W
R309	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R310	1-208-814-11	METAL CHIP	22K	0.50%	1/10W
R311	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R312	1-216-085-00	METAL CHIP	33K	5%	1/10W
R313	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R314	1-216-103-00	METAL GLAZE	180K	5%	1/10W
R315	1-216-085-00	METAL CHIP	33K	5%	1/10W
R316	1-208-814-11	METAL CHIP	22K	0.50%	1/10W
R317	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R318	1-208-814-11	METAL CHIP	22K	0.50%	1/10W
R319	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R320	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R330	1-216-085-00	METAL CHIP	33K	5%	1/10W
R331	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R332	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R333	1-217-671-11	METAL CHIP	1	5%	1/10W
		< VIBRATOR >			
X1	1-760-365-11	VIBRATOR, CERAMIC (10MHz)			

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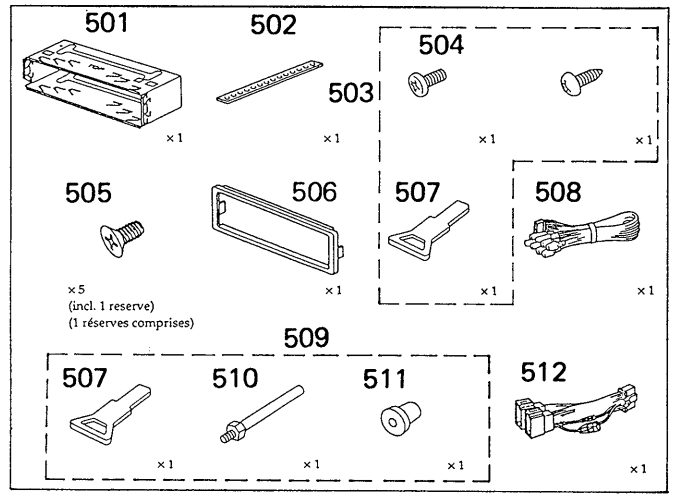
SUB

Ref. No.	Part No.	Description	Remark
*	1-659-834-11	SUB BOARD	
		*********	
		< CONNECTOR >	
CN1	1-770-347-21	CONNECTOR, FPC 6P	
		**********	
		MISCELLANEOUS	
		**********	
12	1-776-207-31	CORD (WITH CONNECTOR) (C610)	
12	1-776-527-11	CORD (WITH CONNECTOR) (C610RDS)	
205	1-659-880-11	MOTOR FLEXIBLE BOARD	
⚠208	8-848-402-02	OPTICAL PICK-UP KSS-520A	
209	1-659-881-11	PICK-UP FLEXIBLE BOARD	
F1	1-532-982-11	FUSE (BRADE TYPE) (AUTO FUSE) (15A)	
M901	X-3371-665-1	MOTOR ASSY (SPINDLE)	
M902	A-3291-574-A	MOTOR ASSY, SLED	
M903	A-3291-576-A	MOTOR SUB ASSY, LO (LOADING)	
		**********	
		HARDWARE LIST	
		**********	
#1	7-621-773-95	SCREW +PTT 2.6X6 (S)	
#2	7-621-772-10	SCREW +B 2X4	
#3	7-621-773-86	SCREW +PTT 2.6X4 (S)	
#4	7-621-255-25	SCREW +P 2X4	
#5	7-621-770-XX	SCREW +PTT 2.6X8 (S)	
#6	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT	
#7	7-627-553-37	PRECISION SCREW +P 2X3 TYPE 3	
#8	7-627-553-17	PRECISION SCREW +P 2X2 TYPE 3	
#9	7-627-000-00	SCREW, PRECISION +P 1.7X2.2 TYPE 3	
#10	7-627-850-28	SCREW, PRECISION +P 1.4X3	
		**********	
		ACCESSORIES & PACKING MATERIALS	
		**********	
	3-856-122-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, ITALIAN) (C610RDS:AEP, UK, G)	
	3-856-122-21	MANUAL, INSTRUCTION (DUTCH, SWEDISH, SPANISH, PORTUGUESE) (C610RDS:AEP, UK)	
	3-856-122-31	MANUAL, INSTRUCTION (DANISH, FINNISH) (C610RDS:AEP, UK)	
	3-856-122-41	MANUAL, INSTRUCTION (ENGLISH) (C610:US)	
	3-856-122-51	MANUAL, INSTRUCTION (FRENCH) (C610:Canadian)	
	3-856-123-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH, GERMAN, ITALIAN) (C610RDS:AEP, UK, G)	
	3-856-123-21	MANUAL, INSTRUCTION, INSTALL (DUTCH, SWEDISH, SPANISH, PORTUGUESE) (C610RDS:AEP, UK)	
	3-856-123-31	MANUAL, INSTRUCTION, INSTALL (DANISH, FINNISH) (C610RDS:AEP, UK)	
	3-856-123-41	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH) (C610:US, Canadian)	
	X-3369-665-1	CASE ASSY	
		**********	
		MOUNTING HARDWARE	
		**********	
* 501	3-916-161-01	FRAME, FITTING	
502	Not supplied		
503	X-3370-076-1	SCREW ASSY (U.KEY), FITTING (C610)	
504	7-682-560-04	SCREW +P4X6 (C610)	
505	X-3371-913-1	SCREW ASSY (J)	
506	3-932-910-11	COLLAR	
507	3-388-078-01	KEY	
508	1-776-207-31	CORD (WITH CONNECTOR) (C610)	
509	X-3370-077-1	SCREW ASSY (KEY), FITTING (C610RDS)	
510	3-386-828-01	SCREW, FITTING (C610RDS)	
511	3-349-410-01	BUSHING (C610RDS)	
512	1-776-527-11	CORD (WITH CONNECTOR) (C610RDS)	



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

English
96A0563-1
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Mobile Electronics Company

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Quality Engineering Dept.

CDX-C610/C610RDS

SONY

SERVICE MANUAL

US Model
Canadian Model
CDX-C610
AEP Model
UK Model
CDX-C610RDS

SUPPLEMENT-1

File this supplement with the service manual.

Subject:
1. Correction
2. Change of Main Board

(ECN-CS600278)

1. CORRECTION

☛ or ____ (Under line): indicates changed portion.

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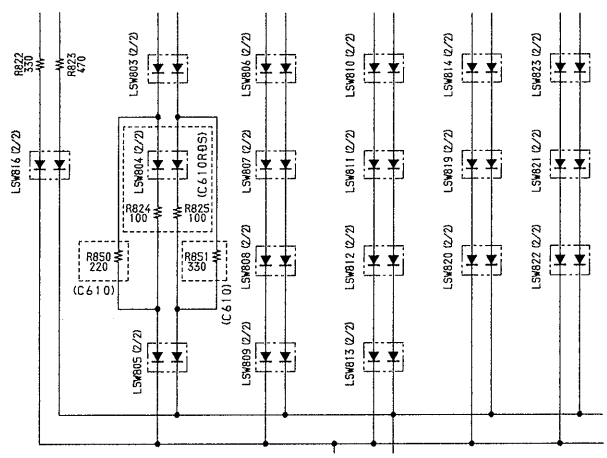
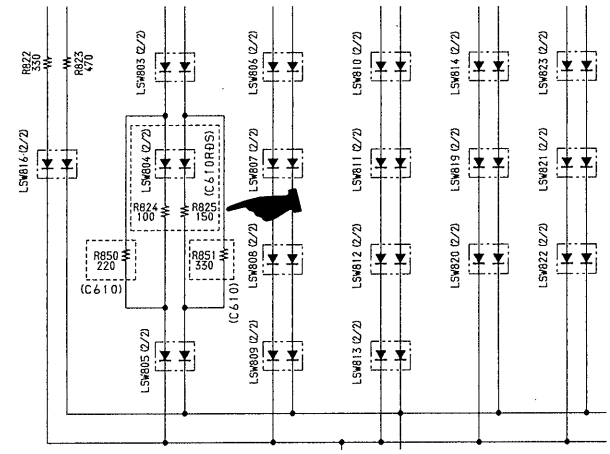
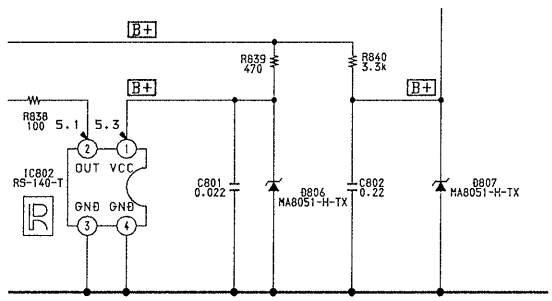
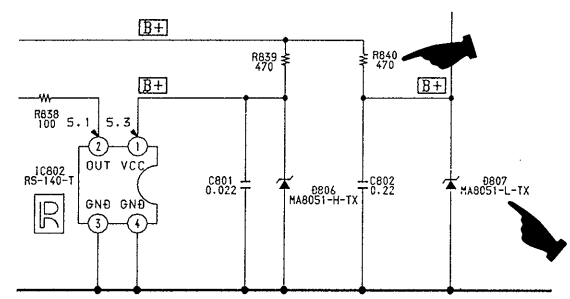
15		
16		

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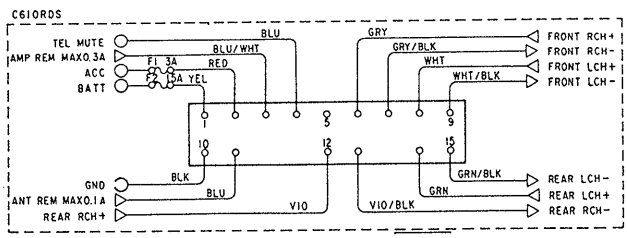
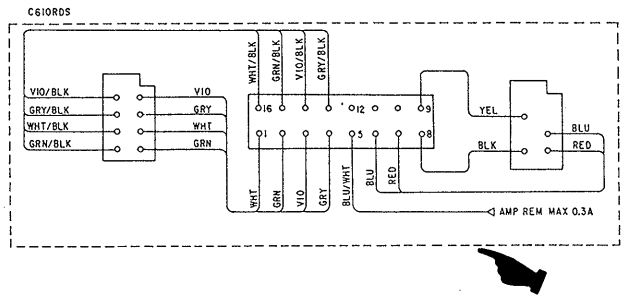
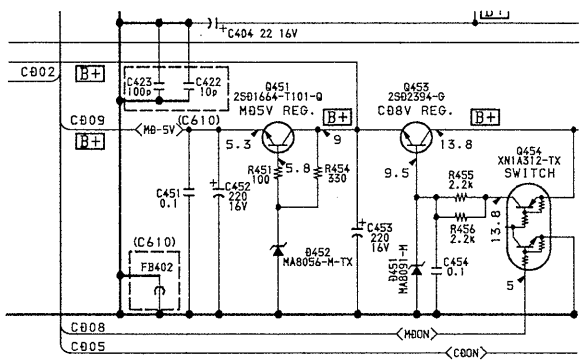
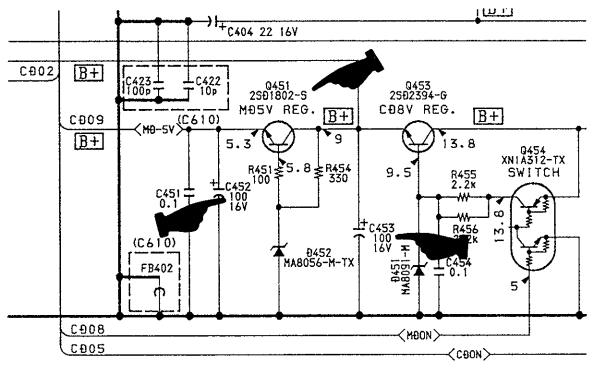
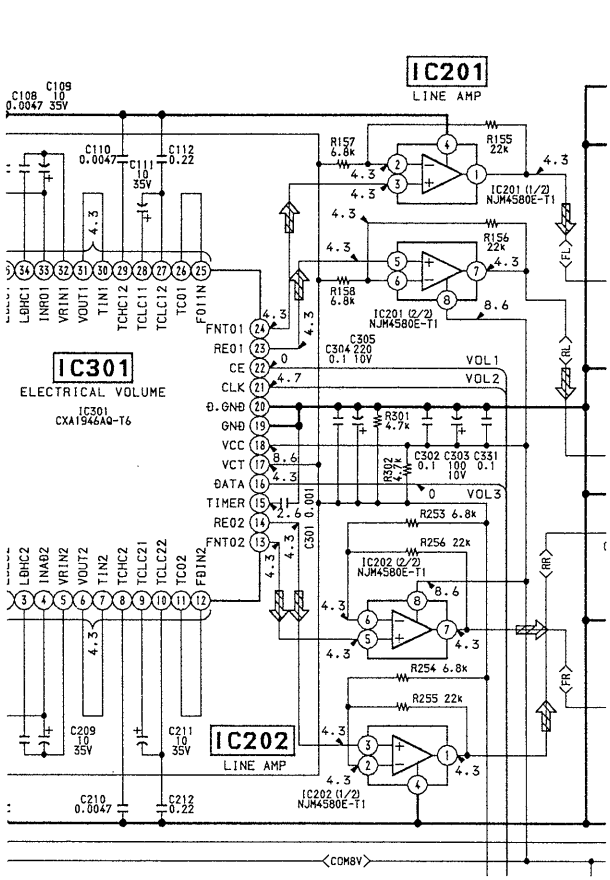
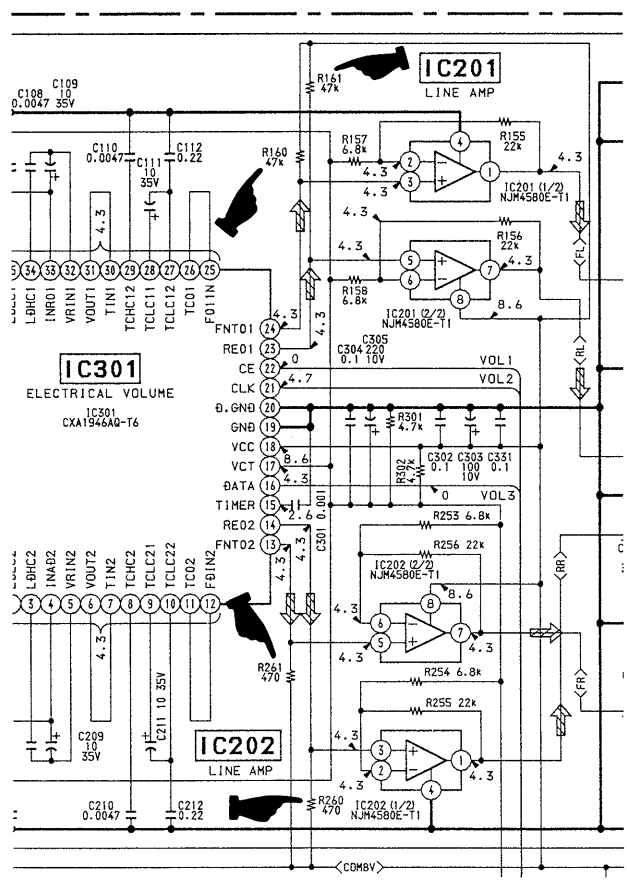
20		
21		
22		

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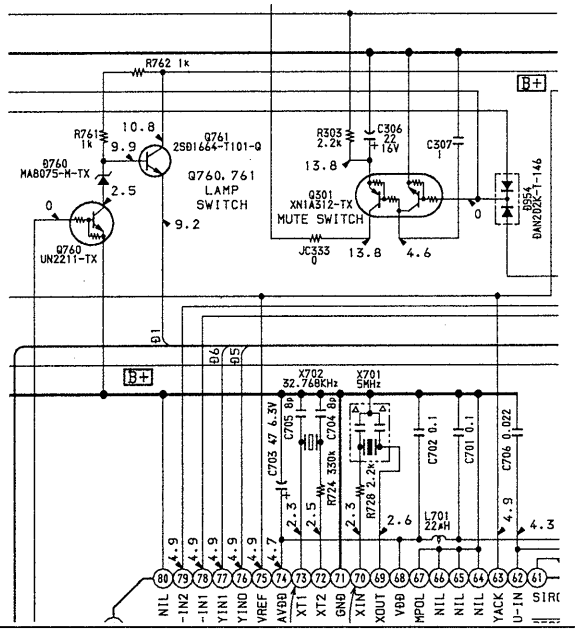
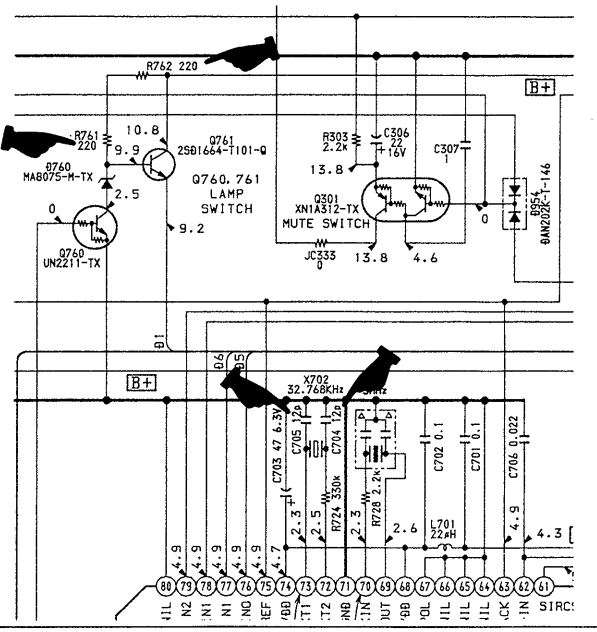
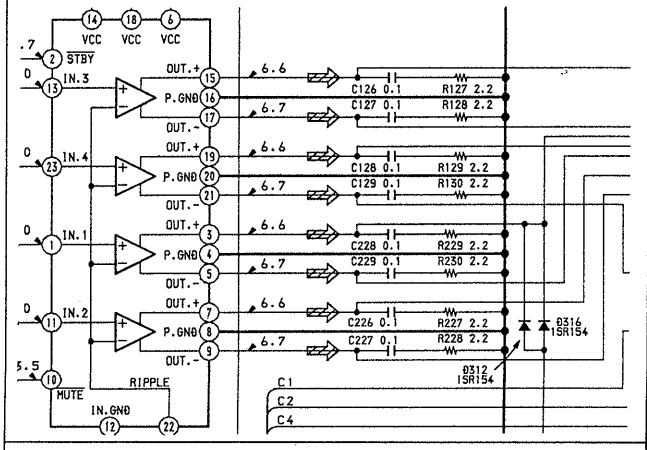
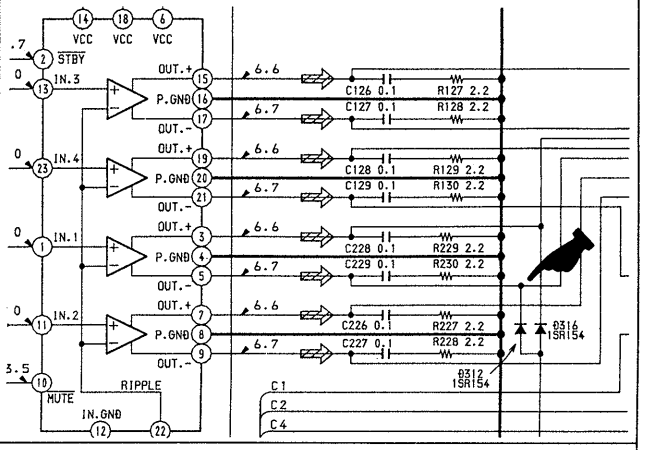
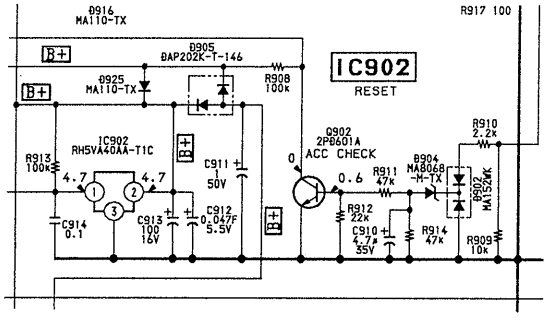
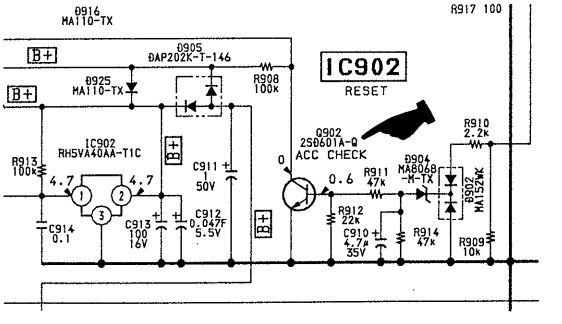
23		
24		
		

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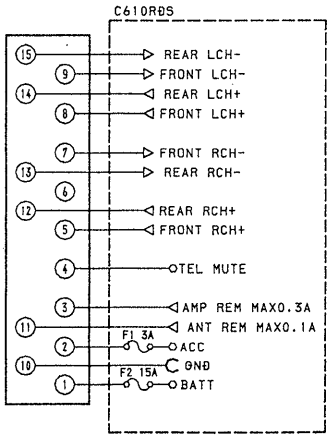
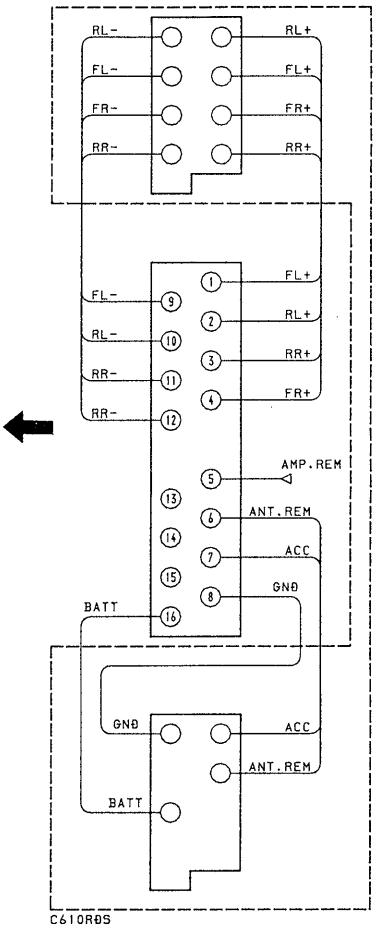
24		

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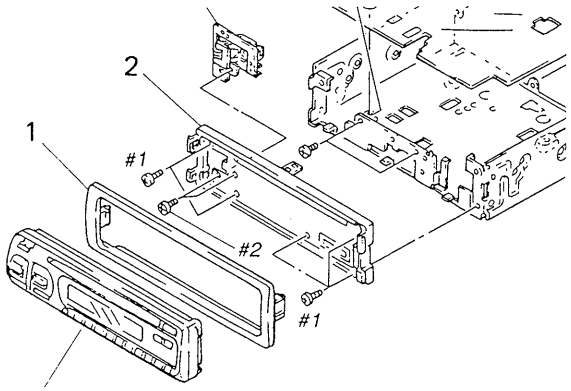
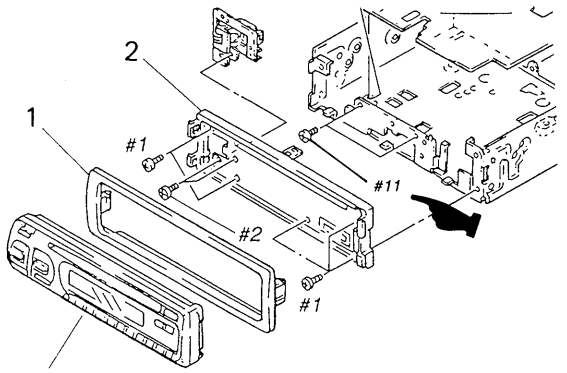
					#11	7-621-770-67	SCREW +PTT2.6 × 6 (S)	
47	58 58	3-932-904-31 3-932-904-41	PANEL, FRONT (C610) PANEL, FRONT (C610RDS)		58 58 58	3-932-904-21 3-932-904-31 3-932-904-41	PANEL, FRONT (C610: US) PANEL, FRONT (C610: Canadian) PANEL, FRONT (C610RDS)	
	62	3-932-892-11	BUTTON (10 KEY)		62 62	3-932-892-01 3-932-892-11	BUTTON (10 KEY) (Canadian, AEP, UK, German) BUTTON (10 KEY) (US)	
	66	3-932-899-11	PANEL, BACK		66 66	3-932-899-01 3-932-899-11	PANEL, BACK (Canadian, AEP, UK, German) PANEL, BACK (US)	
51	D807	8-719-422-43	DIODE MA8051-H		D807	8-719-422-41	DIODE MA8051-L-TX	
52	R838	1-216-025-00	METAL GLAZE 100 5% 1/10W		R838	1-216-809-00	METAL GLAZE 100 5% 1/16W	
	R840 R840	1-216-061-00 1-216-041-00	METAL CHIP 3.3K 5% 1/10W METAL CHIP 470 5% 1/10W (C610RDS)		R840	1-216-041-00	METAL CHIP 470 5% 1/10W	
	R844	1-216-049-00	METAL GLAZE 1K 5% 1/10W		R844	1-216-821-00	METAL GLAZE 1K 5% 1/16W	
	R846	1-216-049-00	METAL GLAZE 1K 5% 1/10W		R846	1-216-821-00	METAL GLAZE 1K 5% 1/16W	
	R847	1-216-113-00	METAL CHIP 470K 5% 1/10W		R847	1-216-853-00	METAL CHIP 470K 5% 1/16W	
54	C452	1-107-899-11	ELECT 220µF 20% 16V		C452	1-124-455-00	ELECT 100µF 20% 16V	
	C453	1-107-899-11	ELECT 220µF 20% 16V		C453	1-124-455-00	ELECT 100µF 20% 16V	
	C704	1-163-019-00	CERAMIC CHIP 8PF 50V		C704	1-163-229-11	CERAMIC CHIP 12PF 5% 50V	
	C705	1-163-019-00	CERAMIC CHIP 8PF 50V		C705	1-163-229-11	CERAMIC CHIP 12PF 5% 50V	
55	Q451	8-729-106-68	TRANSISTOR 2SD1615A-GP		Q451	8-729-807-12	TRANSISTOR 2SD1802-S	
56	Q902	8-729-030-98	TRANSISTOR 2PD601A-115		Q902	8-729-422-27	TRANSISTOR 2SD601A-Q	
	R2	1-216-049-00	METAL GLAZE 1K 5% 1/10W		R2	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
					R160	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
					R161	1-216-841-11	METAL GLAZE 47K 5% 1/16W	
					R260	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
					R261	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
	R761	1-216-049-00	METAL GLAZE 1K 5% 1/10W		R761	1-216-033-00	METAL GLAZE 220 5% 1/10W	
	R762	1-216-049-00	METAL GLAZE 1K 5% 1/10W		R762	1-216-033-00	METAL GLAZE 220 5% 1/10W	

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<tr><th>Ref. No.</th><th>Part No.</th><th>Description</th><th>Remark</th></tr>
<tr><td></td><td></td><td>ACCESSORIES & PACKING MATERIALS</td><td></td></tr>
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<tr><td></td><td>3-856-122-41</td><td>MANUAL, INSTRUCTION (ENGLISH) (C610: US)</td><td></td></tr>
<tr><td>501</td><td>3-916-161-01</td><td>FRAME, FITTING</td><td></td></tr>
<tr><td>502</td><td>Not supplied</td><td></td><td></td></tr>
<tr><td>505</td><td>X-3371-913-1</td><td>SCREW ASSY (J)</td><td></td></tr>
<tr><td>506</td><td>3-932-910-11</td><td>COLLAR</td><td></td></tr>
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<tr><td></td><td>3-856-246-21</td><td>MANUAL, INSTRUCTION, INSTALL (ENGLISH/FRENCH/GERMAN/SPANISH/DUTCH/SWEDISH/ITALIAN/PORTUGUESE/CHINESE) (for RM-X2S) (C610RDS)</td><td></td></tr>
<tr><td></td><td>X-3369-817-1</td><td>BRACKET ASSY (for RM-X2S) (C610RDS)</td><td></td></tr>
<tr><td></td><td>3-856-122-41</td><td>MANUAL, INSTRUCTION (ENGLISH) (C610: US, Canadian)</td><td></td></tr>
<tr><td>501</td><td>3-916-161-31</td><td>FRAME, FITTING</td><td></td></tr>
<tr><td>502</td><td>3-914-406-01</td><td>SUPPORT (ND), FITTING (C610)</td><td></td></tr>
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<tr><td>506</td><td>3-932-910-01</td><td>COLLAR</td><td></td></tr>
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Tuner section (CDX-610RDS)

FM

Tuning range	87.5-107.9 MHz
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz
Usable sensitivity	8 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	62 dB (stereo), 65 dB (mono)
Harmonic distortion at 1 kHz	0.9% (stereo), 0.5% (mono)
Separation	35 dB at 1 kHz
Frequency response	30-15,000 Hz
Capture ratio	2 dB

</td><td>

Tuner section (CDX-610RDS)

FM

Tuning range	87.5-108 MHz
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz
Usable sensitivity	8 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	62 dB (stereo), 65 dB (mono)
Harmonic distortion at 1 kHz	0.9% (stereo), 0.5% (mono)
Separation	35 dB at 1 kHz
Frequency response	30-15,000 Hz
Capture ratio	2 dB

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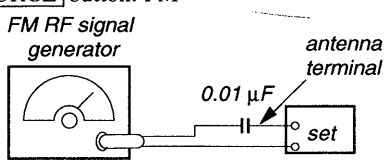
FM Signal Meter Adjustment (CDX-C610RDS)

Setting:

SOURCE button: FM



Carrier frequency : 98.0MHz
Output level : 35dB (56.2 µV)
Mode : mono
Modulation : 1kHz, 75kHz deviation

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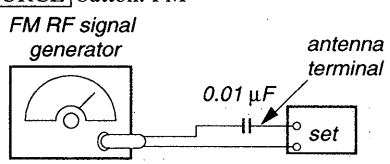
FM Signal Meter Adjustment (CDX-C610RDS)

Setting:

SOURCE button: FM



Carrier frequency : 98.0MHz
Output level : 35dB (56.2 µV)
Mode : mono
Modulation : no modulation

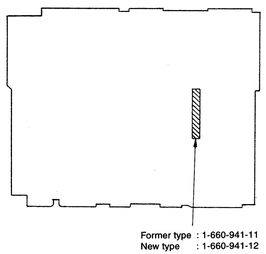
</td></tr>
</table>

2. CHANGE OF MAIN BOARD

MAIN board has been modified in the middle of production.
This supplement-1 contains the printed wiring board, the schematic diagram and the electrical parts list for the new type.

• New/Former Discrimination

[MAIN BOARD] (Component Side)



Former type : 1-660-941-11
New type : 1-660-941-12

Note:
- ○——○ : parts extracted from the component side.
- △ : internal component.
- ▨ : Pattern from the side which enables seeing.

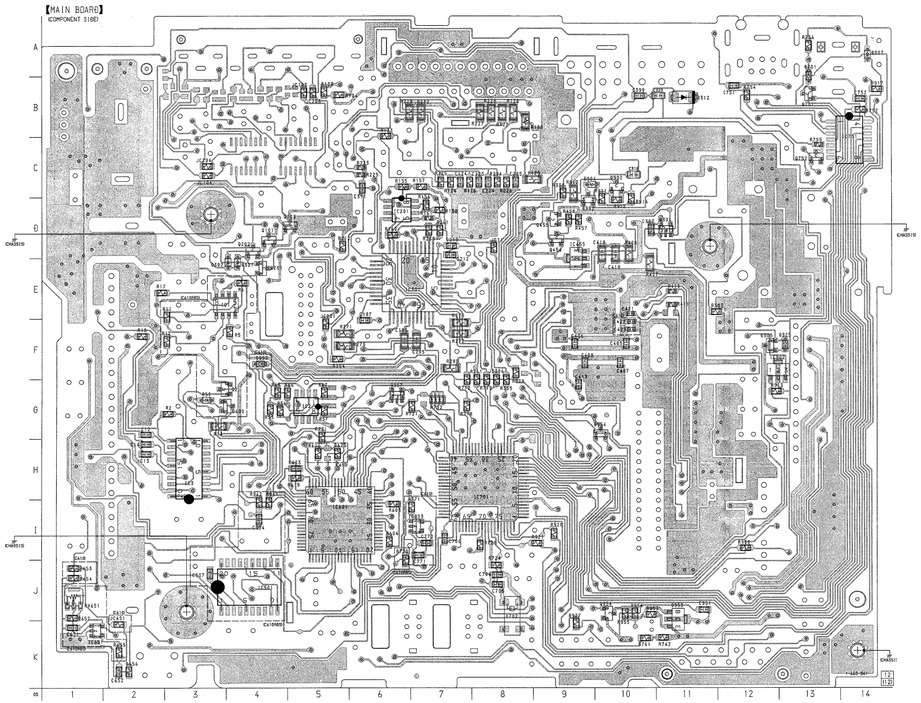
(The other layers' patterns are not indicated.)

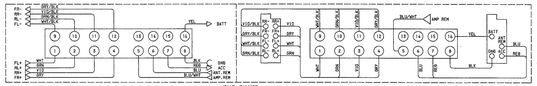
Caution:
Pattern face side: (Conductor side) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component side) Parts on the parts face side seen from the parts face are indicated.

2-1. PRINTED WIRING BOARD – MAIN Section –

• Semiconductor Location

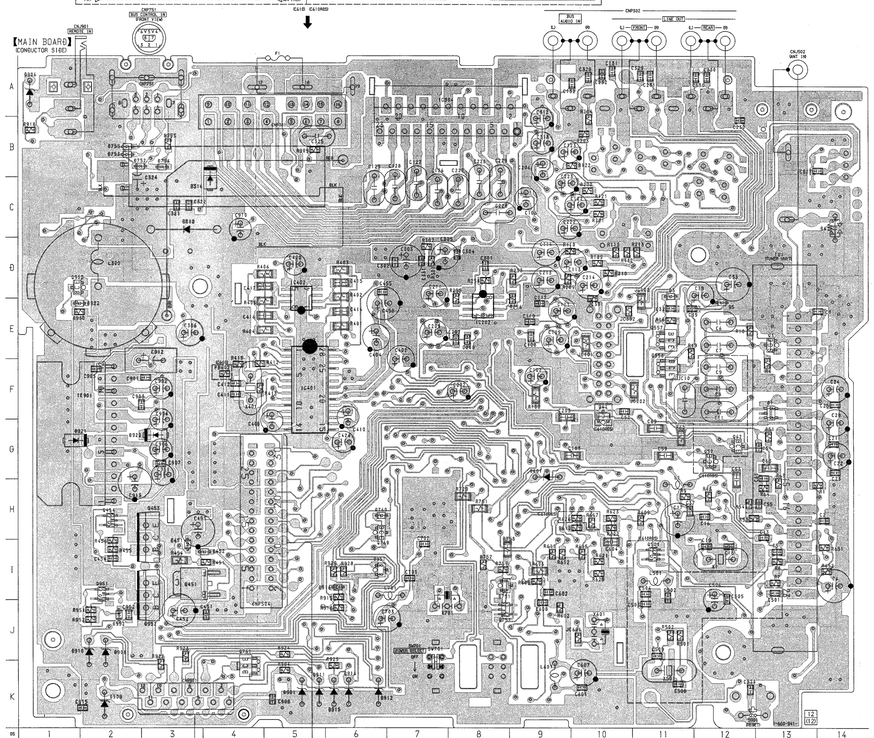
Ref. No.	Location
D50	G-3
D301	E-4
D302	E-4
D312	B-11
D701	A-13
D902	D-9
D904	C-9
D905	F-12
D907	A-14
D925	F-12
D954	G-10
D955	F-4
IC1	E-4
IC2	G-5
IC3	H-3
IC201	D-6
IC301	E-7
IC455	E-9
IC501	J-4
IC601	I-5
IC651	K-1
IC701	H-8
IC751	C-14
IC902	F-12
IC903	I-7
Q2	G-3
Q101	D-4
Q102	D-4
Q201	E-4
Q202	D-4
Q301	D-11
Q455	D-9
Q456	D-9
Q600	G-3
Q701	B-13
Q752	C-13
Q902	C-10
Q953	J-11
Q954	J-10
Q957	G-6

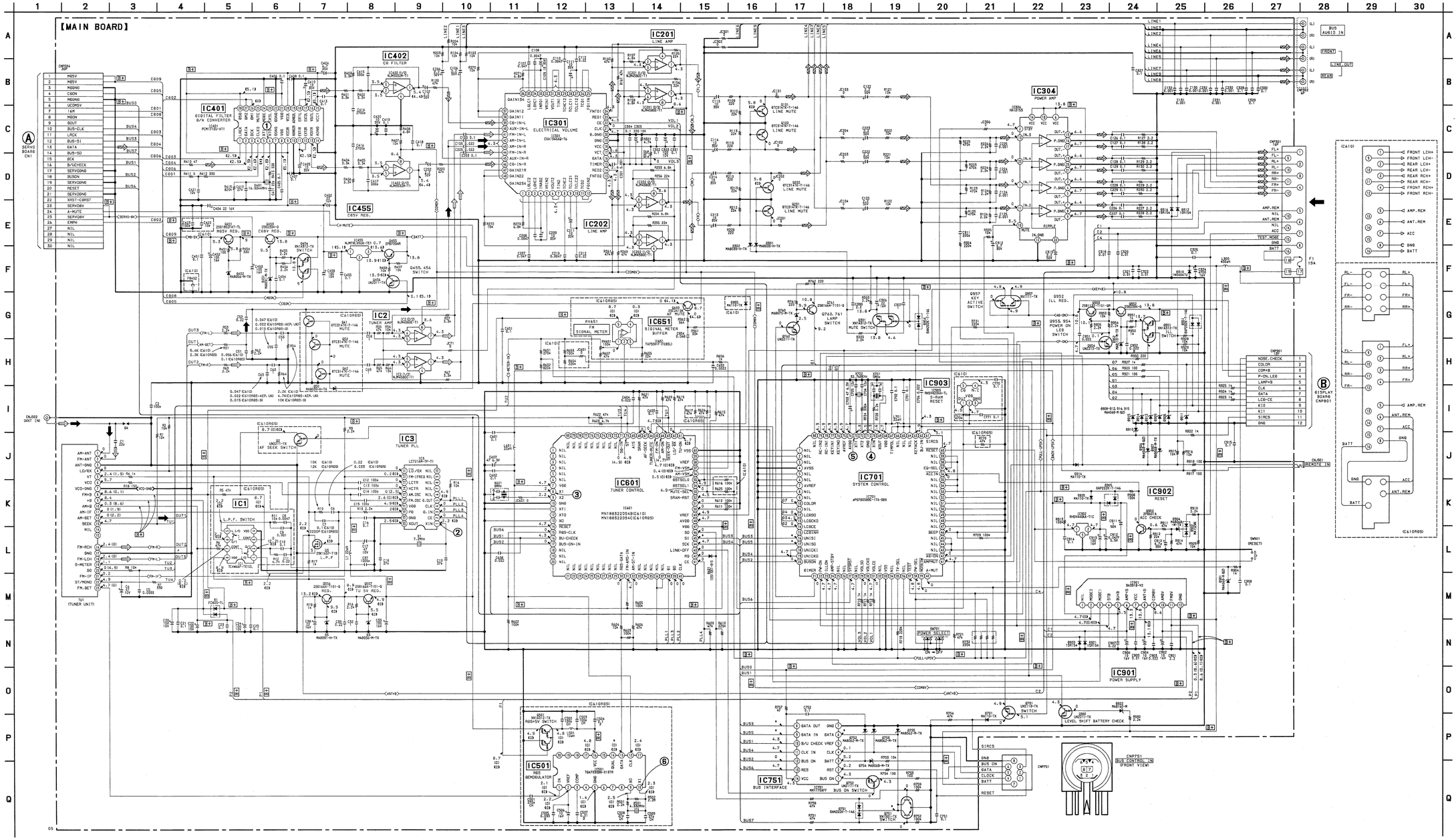




• Semiconductor Location

Ref. No.	Location
D1	F-13
D3	D-11
D4	D-14
D5	D-12
D310	C-3
D316	B-4
D451	H-3
D452	I-4
D601	G-9
D751	I-8
D752	B-3
D753	B-2
D754	B-3
D755	B-2
D760	H-6
D901	K-5
D906	A-1
D908	J-2
D909	K-2
D910	J-2
D911	K-5
D912	K-6
D914	K-6
D915	K-6
D916	I-6
D920	G-2
D921	G-1
D922	E-2
D951	I-6
D952	J-2
IC202	E-8
IC304	A-8
IC401	F-5
IC402	D-5
IC901	G-2
Q3	E-13
Q41	F-10
Q52	G-12
Q62	G-12
Q451	I-4
Q453	H-3
Q454	H-2
Q501	I-11
Q556	F-11
Q557	E-11
Q751	J-8
Q760	H-6
Q761	K-4
Q900	D-1
Q951	I-2
Q952	I-3





Note:

- All capacitors are in µF unless otherwise noted. pF: µµF
  50 WV or less are not indicated except for electrolytics and tantaiums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- B+ : B+ Line.
- : panel designation.
- : adjustment for repair.
- Power voltage is dc 14.4 V and fed with regulated dc power supply from BATT and ACC terminals.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no-mark : FM
  ( ) : AM (MW)
  << >> : CD
  * : Impossible to measure.
- Voltages are taken with a VOM (10 MΩ/V).
  Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : FM
  : AM (MW)
  : CD
- Abbreviation
  G : German

2-3. ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Abbreviation
  G:German
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA ..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	A-3309-109-A	MAIN BOARD, COMPLETE (C610RDS:AEP,UK)			
*	A-3309-166-A	MAIN BOARD, COMPLETE (C610RDS:G)			
*	A-3309-168-A	MAIN BOARD, COMPLETE (C610)			
		**********			
*	3-932-893-01	BRACKET (IC)			
*	3-932-909-01	SINK (IC), HEAT			
		< CAPACITOR >			
C1	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C2	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C4	1-124-589-11	ELECT	47uF	20%	16V
C5	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C6	1-136-159-00	FILM	0.033uF	5%	50V (C610RDS)
C6	1-136-169-00	FILM	0.22uF	5%	50V (C610)
C7	1-104-679-11	MYLAR	0.0022uF	5%	50V (C610RDS)
C7	1-115-326-91	FILM	0.1uF	5%	50V (C610)
C8	1-104-683-11	MYLAR	0.0047uF	5%	50V (C610RDS)
C9	1-136-227-11	MYLAR	0.001uF	5%	50V (C610RDS)
C10	1-115-326-91	FILM	0.1uF	5%	50V (C610RDS)
C11	1-136-169-00	FILM	0.22uF	5%	50V (C610RDS)
C12	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C13	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C14	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C15	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C16	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C17	1-124-589-11	ELECT	47uF	20%	16V
C18	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C19	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C20	1-126-933-11	ELECT	100uF	20%	10V
C21	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C22	1-126-933-11	ELECT	100uF	20%	10V
C23	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C24	1-126-933-11	ELECT	100uF	20%	10V
C25	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C32	1-164-346-11	CERAMIC CHIP	1uF		16V
C33	1-124-455-00	ELECT	100uF	20%	16V
C37	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C38	1-124-234-00	ELECT	22uF	20%	16V
C39	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C51	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V (C610RDS)
C51	1-164-343-11	CERAMIC CHIP	0.056uF	10%	25V (C610)
C52	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C53	1-107-682-11	CERAMIC CHIP	1uF	10%	16V
C55	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V (C610RDS:G)
C55	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V (C610RDS:AEP,UK)
C55	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V (C610)
C59	1-107-682-11	CERAMIC CHIP	1uF	10%	16V
C63	1-107-682-11	CERAMIC CHIP	1uF	10%	16V
C65	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V (C610RDS:G)
C65	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V (C610RDS:AEP,UK)
C65	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V (C610)
C69	1-107-682-11	CERAMIC CHIP	1uF	10%	16V
C102	1-126-161-11	ELECT	2.2uF	20%	50V
C103	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C105	1-163-063-00	CERAMIC CHIP	0.022uF	10%	50V
C106	1-124-257-00	ELECT	2.2uF	20%	50V
C107	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C108	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C109	1-104-946-11	ELECT	10uF	20%	35V
C110	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C111	1-104-946-11	ELECT	10uF	20%	35V

MAIN

Ref. No.	Part No.	Description			Remark
C112	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C113	1-104-946-11	ELECT	10uF	20%	35V
C114	1-104-946-11	ELECT	10uF	20%	35V
C122	1-126-161-11	ELECT	2.2uF	20%	50V
C123	1-126-161-11	ELECT	2.2uF	20%	50V
C124	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C125	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C126	1-136-165-00	FILM	0.1uF	5%	50V
C127	1-136-165-00	FILM	0.1uF	5%	50V
C128	1-136-165-00	FILM	0.1uF	5%	50V
C129	1-136-165-00	FILM	0.1uF	5%	50V
C130	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C131	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C132	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C202	1-126-161-11	ELECT	2.2uF	20%	50V
C203	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C205	1-163-063-00	CERAMIC CHIP	0.022uF	10%	50V
C206	1-124-257-00	ELECT	2.2uF	20%	50V
C207	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C208	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C209	1-104-946-11	ELECT	10uF	20%	35V
C210	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C211	1-104-946-11	ELECT	10uF	20%	35V
C212	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C213	1-104-946-11	ELECT	10uF	20%	35V
C214	1-104-946-11	ELECT	10uF	20%	35V
C222	1-126-161-11	ELECT	2.2uF	20%	50V
C223	1-126-161-11	ELECT	2.2uF	20%	50V
C224	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C225	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C226	1-115-326-00	FILM	0.1uF	5%	50V
C227	1-136-165-00	FILM	0.1uF	5%	50V
C228	1-115-326-00	FILM	0.1uF	5%	50V
C229	1-115-326-00	FILM	0.1uF	5%	50V
C230	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C231	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C232	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C301	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C302	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C303	1-126-277-11	ELECT	100uF	20%	10V
C304	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C305	1-107-889-11	ELECT	220uF	20%	10V
C306	1-124-234-00	ELECT	22uF	20%	16V
C307	1-164-346-11	CERAMIC CHIP	1uF		16V
C311	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C312	1-126-163-11	ELECT	4.7uF	20%	50V
C313	1-124-257-00	ELECT	2.2uF	20%	50V
C318	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C320	1-164-232-11	CERAMIC CHIP	0.01uF		50V

Ref. No.	Part No.	Description			Remark
C321	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C322	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C324	1-115-469-21	CAPACITOR	4700uF		16V
C325	1-115-326-91	FILM	0.1uF	5%	50V
C327	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C328	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C329	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C330	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C331	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C399	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C402	1-104-952-11	ELECT	22uF	20%	16V
C404	1-104-952-11	ELECT	22uF	20%	16V
C405	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C406	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C407	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C408	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C409	1-128-428-11	ELECT	10uF	20%	35V
C410	1-128-428-11	ELECT	10uF	20%	35V
C411	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C412	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C413	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C414	1-163-215-00	CERAMIC CHIP	0.0027uF	5%	50V
C415	1-163-193-00	CERAMIC CHIP	330PF	5%	50V
C416	1-163-215-00	CERAMIC CHIP	0.0027uF	5%	50V
C417	1-163-193-00	CERAMIC CHIP	330PF	5%	50V
C418	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C419	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C420	1-128-428-11	ELECT	10uF	20%	35V
C421	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C422	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V (C610)
C423	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (C610)
C424	1-104-945-11	ELECT	4.7uF	20%	35V
C451	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C452	1-124-455-00	ELECT	100uF	20%	16V
C453	1-124-455-00	ELECT	100uF	20%	16V
C454	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C455	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C458	1-126-277-11	ELECT	100uF	20%	10V
C501	1-163-127-00	CERAMIC CHIP	270PF	5%	50V (C610RDS)
C502	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (C610RDS)
C503	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (C610RDS)
C504	1-163-038-00	CERAMIC CHIP	0.1uF		25V (C610RDS)
C505	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V (C610RDS)
C506	1-126-157-11	ELECT	10uF	20%	16V (C610RDS)

Ref. No.	Part No.	Description		Remark
C507	1-164-232-11	CERAMIC CHIP	0.01uF	50V (C610RDS)
C508	1-163-237-11	CERAMIC CHIP	27PF 5%	50V (C610RDS)
C509	1-163-237-11	CERAMIC CHIP	27PF 5%	50V (C610RDS)
C601	1-163-038-00	CERAMIC CHIP	0.1uF	25V
C602	1-163-038-00	CERAMIC CHIP	0.1uF	25V
C603	1-163-038-00	CERAMIC CHIP	0.1uF	25V
C604	1-163-063-00	CERAMIC CHIP	0.022uF 10%	50V
C607	1-126-154-11	ELECT	47uF 20%	6.3V
C608	1-163-037-11	CERAMIC CHIP	0.022uF 10%	25V
C651	1-163-038-00	CERAMIC CHIP	0.1uF	25V
C652	1-164-161-11	CERAMIC CHIP	0.0022uF 10%	100V
C701	1-163-038-00	CERAMIC CHIP	0.1uF	25V
C702	1-163-038-00	CERAMIC CHIP	0.1uF	25V
C703	1-126-154-11	ELECT	47uF 20%	6.3V
C704	1-163-091-00	CERAMIC CHIP	8PF	50V
C705	1-163-091-00	CERAMIC CHIP	8PF	50V
C706	1-163-037-11	CERAMIC CHIP	0.022uF 10%	25V
C751	1-163-038-00	CERAMIC CHIP	0.1uF	25V
C752	1-163-038-00	CERAMIC CHIP	0.1uF	25V
C770	1-164-004-11	CERAMIC CHIP	0.1uF 10%	25V (C610)
C771	1-163-038-00	CERAMIC CHIP	0.1uF	25V (C610)
C901	1-164-505-11	CERAMIC CHIP	2.2uF	16V
C902	1-126-157-11	ELECT	10uF 20%	16V
C903	1-163-037-11	CERAMIC CHIP	0.022uF 10%	25V
C904	1-126-157-11	ELECT	10uF 20%	16V
C905	1-164-232-11	CERAMIC CHIP	0.01uF	50V
C906	1-126-157-11	ELECT	10uF 20%	16V
C907	1-164-222-11	CERAMIC CHIP	0.22uF	25V
C908	1-163-038-00	CERAMIC CHIP	0.1uF	25V
C910	1-126-163-11	ELECT	4.7uF 20%	50V
C911	1-126-301-11	ELECT	1uF 20%	50V
C912	1-125-701-11	CAPACITOR	0.047uF	5.5V
C913	1-124-455-00	ELECT	100uF 20%	16V
C914	1-164-004-11	CERAMIC CHIP	0.1uF 10%	25V
C915	1-163-038-00	CERAMIC CHIP	0.1uF	25V
C951	1-163-037-11	CERAMIC CHIP	0.022uF 10%	25V
C952	1-163-037-11	CERAMIC CHIP	0.022uF 10%	25V
C954	1-164-344-11	CERAMIC CHIP	0.068uF 10%	25V (C610RDS)

< CONNECTOR/JACK >

CNJ502	1-764-808-11	JACK (ANT IN) (C610)	
CNJ502	1-770-279-11	JACK, ANTENNA (ISO) (ANT IN) (C610RDS)	
CNJ901	1-566-822-41	JACK (REMOTE IN)	
CNP301	1-774-701-11	PIN, CONNECTOR 16P	
CNP302	1-774-700-11	JACK, PIN 6P (BUS AUDIO IN/LINE OUT)	
CNP504	1-764-617-12	PIN, CONNECTOR (PC BOARD) 30P	
CNP751	1-580-907-31	PLUG, CONNECTOR	
CNP901	1-764-422-11	PLUG, CONNECTOR 12P	

< DIODE >

D1	8-719-981-59	DIODE	FC805
D3	8-719-977-03	DIODE	DTZ5.6B
D4	1-519-504-11	DIODE	GAP, DISCHARGE
D5	8-719-422-97	DIODE	MA8091-M
D50	8-719-421-24	DIODE	MA8039-H (C610RDS)
D301	8-719-421-24	DIODE	MA8039-H
D302	8-719-421-24	DIODE	MA8039-H
D310	8-719-049-38	DIODE	1N5404TU
D312	8-719-053-18	DIODE	1SR154-400TE-25
D316	8-719-053-18	DIODE	1SR154-400TE-25
D451	8-719-422-97	DIODE	MA8091-M
D452	8-719-977-03	DIODE	DTZ5.6B
D601	8-719-050-86	DIODE	1SS133T-91S
D701	8-719-404-46	DIODE	MA110
D751	8-719-914-43	DIODE	DAN202K
D752	8-719-422-64	DIODE	MA8062-M
D753	8-719-422-64	DIODE	MA8062-M
D754	8-719-977-12	DIODE	DTZ6.8B
D755	8-719-422-64	DIODE	MA8062-M
D760	8-719-422-76	DIODE	MA8075-M
D901	8-719-109-97	DIODE	RD6.8ES-B2
D902	8-719-801-78	DIODE	1SS184
D904	8-719-977-12	DIODE	DTZ6.8B
D905	8-719-914-44	DIODE	DAP202K
D906	8-719-109-97	DIODE	RD6.8ES-B2
D907	8-719-977-12	DIODE	DTZ6.8B
D908	8-719-109-97	DIODE	RD6.8ES-B2
D909	8-719-109-97	DIODE	RD6.8ES-B2
D910	8-719-109-97	DIODE	RD6.8ES-B2
D911	8-719-109-97	DIODE	RD6.8ES-B2
D912	8-719-109-97	DIODE	RD6.8ES-B2
D914	8-719-109-97	DIODE	RD6.8ES-B2
D915	8-719-109-97	DIODE	RD6.8ES-B2
D916	8-719-404-46	DIODE	MA110
D920	8-719-053-18	DIODE	1SR154-400TE-25
D921	8-719-053-18	DIODE	1SR154-400TE-25
D922	8-719-022-90	DIODE	MA8160M
D925	8-719-404-46	DIODE	MA110
D951	8-719-914-44	DIODE	DAP202K
D952	8-719-423-23	DIODE	MA8110-M
D954	8-719-914-43	DIODE	DAN202K
D955	8-719-404-46	DIODE	MA110 (C610)

MAIN

Ref. No.	Part No.	Description	Remark
		< FERRITE BEAD >	
FB402	1-500-244-21	BEAD, FERRITE (CHIP)	(C610)
		< IC >	
IC1	8-759-242-66	IC TC4W66F	(C610RDS)
IC2	8-759-711-82	IC NJM4580E	
IC3	8-759-823-81	IC LC7216M	
IC201	8-759-711-82	IC NJM4580E	
IC202	8-759-711-82	IC NJM4580E	
IC301	8-752-075-48	IC CXA1946AQ-T6	
IC304	8-759-369-41	IC HA13155	
IC401	8-759-185-27	IC PCM1710U-A	
IC402	8-759-700-94	IC NJM5532M-T1	
IC455	8-759-711-58	IC NJM78L05UA	
IC501	8-759-163-63	IC TDA7330BD-013TR	(C610RDS)
IC601	8-759-381-32	IC MN1883220S4B1	(C610)
IC601	8-759-380-00	IC MN1883220S4C	(C610RDS)
IC651	8-759-075-66	IC TA75S01F	(C610RDS)
IC701	8-759-387-70	IC uPD78P058GC-176-3B9	
IC751	8-759-096-16	IC MM1175XFF	
IC901	8-759-347-49	IC BA3918-V2	
IC902	8-759-097-36	IC RH5VA40AA	
IC903	8-759-344-91	IC RN5VD23AA-T1	(C610)
		< CHIP CONDUCTOR >	
JC71	1-216-295-00	CONDUCTOR, CHIP	(2012)
JC101	1-216-296-00	CONDUCTOR, CHIP	(3216)
JC102	1-216-296-00	CONDUCTOR, CHIP	(3216)
JC103	1-216-295-00	CONDUCTOR, CHIP	(2012)
JC104	1-216-295-00	CONDUCTOR, CHIP	(2012)
JC201	1-216-295-00	CONDUCTOR, CHIP	(2012)
JC202	1-216-296-00	CONDUCTOR, CHIP	(3216)
JC203	1-216-295-00	CONDUCTOR, CHIP	(2012)
JC204	1-216-295-00	CONDUCTOR, CHIP	(2012)
JC301	1-216-295-00	CONDUCTOR, CHIP	(2012)
JC302	1-216-295-00	CONDUCTOR, CHIP	(2012)
JC306	1-216-295-00	CONDUCTOR, CHIP	(2012)
JC601	1-216-295-00	CONDUCTOR, CHIP	(2012)
JC651	1-216-295-00	CONDUCTOR, CHIP	(2012) (C610)
		< COIL >	
L1	1-410-973-11	INDUCTOR 22uH	
L300	1-411-670-11	COIL, CHOKE	
L501	1-410-971-11	INDUCTOR 10uH	(C610RDS)
L601	1-410-973-11	INDUCTOR 22uH	
L701	1-410-973-11	INDUCTOR 22uH	

Ref. No.	Part No.	Description	Remark
		< TRANSISTOR >	
Q2	8-729-421-22	TRANSISTOR UN2211	(C610RDS)
Q3	8-729-021-94	TRANSISTOR 2SK1657-T1B	
Q41	8-729-920-21	TRANSISTOR DTC314TKH04	(C610RDS)
Q52	8-729-920-21	TRANSISTOR DTC314TKH04	(C610RDS)
Q62	8-729-920-21	TRANSISTOR DTC314TKH04	(C610RDS)
Q101	8-729-920-21	TRANSISTOR DTC314TKH04	
Q102	8-729-920-21	TRANSISTOR DTC314TKH04	
Q201	8-729-920-21	TRANSISTOR DTC314TKH04	
Q202	8-729-920-21	TRANSISTOR DTC314TKH04	
Q301	8-729-020-67	TRANSISTOR XN1A312-TX	
Q451	8-729-807-12	TRANSISTOR 2SD1802-S	
Q453	8-729-019-00	TRANSISTOR 2SD2394-G	
Q454	8-729-020-67	TRANSISTOR XN1A312-TX	
Q455	8-729-216-22	TRANSISTOR 2SA1162-G	
Q456	8-729-421-22	TRANSISTOR UN2211	
Q501	8-729-020-67	TRANSISTOR XN1A312-TX	(C610RDS)
Q556	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q557	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q600	8-729-120-28	TRANSISTOR 2SC1623-L5L6	(C610RDS)
Q701	8-729-424-18	TRANSISTOR UN2113-TX	
Q751	8-729-402-13	TRANSISTOR XN1501	
Q752	8-729-424-08	TRANSISTOR UN2111	
Q760	8-729-421-22	TRANSISTOR UN2211	
Q761	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q900	8-729-421-22	TRANSISTOR UN2211	
Q902	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q951	8-729-020-67	TRANSISTOR XN1A312-TX	
Q952	8-729-019-00	TRANSISTOR 2SD2394-G	
Q953	8-729-106-60	TRANSISTOR 2SB1115A	
Q954	8-729-424-59	TRANSISTOR UN2212	
Q957	8-729-024-31	TRANSISTOR XN1111-TX	
		< RESISTOR >	
R1	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R2	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R4	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R5	1-216-089-00	METAL GLAZE 47K 5% 1/10W	(C610RDS)
R6	1-216-089-00	METAL GLAZE 47K 5% 1/10W	(C610RDS)
R7	1-216-037-00	METAL CHIP 330 5% 1/10W	
R8	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R9	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R10	1-216-073-00	METAL CHIP 10K 5% 1/10W	(C610)
R10	1-216-075-00	METAL CHIP 12K 5% 1/10W	(C610RDS)
R11	1-216-073-00	METAL CHIP 10K 5% 1/10W	(C610RDS)
R12	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	(C610RDS)
R13	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R14	1-216-222-00	METAL GLAZE 10K 5% 1/8W	

Ref. No.	Part No.	Description			Remark
R16	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R17	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R18	1-216-029-00	METAL CHIP	150	5%	1/10W
R19	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R51	1-216-061-00	METAL CHIP	3.3K	5%	1/10W (C610RDS)
R51	1-216-067-00	METAL CHIP	5.6K	5%	1/10W (C610)
R53	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R54	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (C610)
R54	1-216-065-00	METAL CHIP	4.7K	5%	1/10W (C610RDS:AEP, UK)
R54	1-216-073-00	METAL CHIP	10K	5%	1/10W (C610RDS:G)
R55	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R56	1-216-073-00	METAL CHIP	10K	5%	1/10W
R57	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R62	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R63	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R64	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (C610)
R64	1-216-065-00	METAL CHIP	4.7K	5%	1/10W (C610RDS:AEP, UK)
R64	1-216-073-00	METAL CHIP	10K	5%	1/10W (C610RDS:G)
R65	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R66	1-216-073-00	METAL CHIP	10K	5%	1/10W
R67	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R100	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R103	1-216-073-00	METAL CHIP	10K	5%	1/10W
R104	1-216-073-00	METAL CHIP	10K	5%	1/10W
R109	1-216-033-00	METAL CHIP	220	5%	1/10W
R110	1-216-033-00	METAL CHIP	220	5%	1/10W
R112	1-216-081-00	METAL CHIP	22K	5%	1/10W
R113	1-216-081-00	METAL CHIP	22K	5%	1/10W
R121	1-216-073-00	METAL CHIP	10K	5%	1/10W
R122	1-216-073-00	METAL CHIP	10K	5%	1/10W
R123	1-216-113-00	METAL CHIP	470K	5%	1/10W
R124	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R125	1-216-113-00	METAL CHIP	470K	5%	1/10W
R126	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R127	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R128	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R129	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R130	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R155	1-216-081-00	METAL CHIP	22K	5%	1/10W
R156	1-216-081-00	METAL CHIP	22K	5%	1/10W
R157	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R158	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R160	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R161	1-216-841-11	METAL CHIP	47K	5%	1/16W
R200	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R203	1-216-073-00	METAL CHIP	10K	5%	1/10W
R204	1-216-073-00	METAL CHIP	10K	5%	1/10W
R209	1-216-033-00	METAL CHIP	220	5%	1/10W
R210	1-216-033-00	METAL CHIP	220	5%	1/10W
R212	1-216-081-00	METAL CHIP	22K	5%	1/10W
R213	1-216-081-00	METAL CHIP	22K	5%	1/10W
R221	1-216-073-00	METAL CHIP	10K	5%	1/10W
R222	1-216-073-00	METAL CHIP	10K	5%	1/10W
R223	1-216-853-11	METAL CHIP	470K	5%	1/16W
R224	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R225	1-216-853-11	METAL CHIP	470K	5%	1/16W
R226	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R227	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R228	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R229	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R230	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R253	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R254	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R255	1-216-081-00	METAL CHIP	22K	5%	1/10W
R256	1-216-081-00	METAL CHIP	22K	5%	1/10W
R260	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R261	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R270	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R271	1-216-218-00	METAL GLAZE	6.8K	5%	1/8W
R272	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R273	1-216-218-00	METAL GLAZE	6.8K	5%	1/8W
R301	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R302	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R303	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R304	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R305	1-216-073-00	METAL CHIP	10K	5%	1/10W
R333	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R401	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R402	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R403	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R404	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R405	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R406	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R407	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R408	1-216-218-00	METAL GLAZE	6.8K	5%	1/8W
R410	1-216-805-11	METAL CHIP	47	5%	1/16W
R411	1-216-864-11	METAL CHIP	0	5%	1/16W
R412	1-216-037-00	METAL CHIP	330	5%	1/10W
R413	1-216-037-00	METAL CHIP	330	5%	1/10W
R415	1-216-119-00	METAL CHIP	820K	5%	1/10W
R451	1-216-025-00	METAL GLAZE	100	5%	1/10W
R454	1-216-186-00	METAL GLAZE	330	5%	1/8W
R455	1-216-057-00	METAL CHIP	2.2K	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R456	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R457	1-216-073-00	METAL CHIP	10K	5%	1/10W
R458	1-216-073-00	METAL CHIP	10K	5%	1/10W
R501	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (C610RDS)
R502	1-216-129-00	METAL CHIP	2.2M	5%	1/10W (C610RDS)
R602	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R603	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R604	1-216-073-00	METAL CHIP	10K	5%	1/10W
R605	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R606	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R609	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R610	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R611	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R612	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R615	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R616	1-216-097-00	METAL GLAZE	100K	5%	1/10W (C610)
R617	1-216-089-00	METAL GLAZE	47K	5%	1/10W (C610RDS)
R619	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R620	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R621	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R622	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R623	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R625	1-216-097-00	METAL GLAZE	100K	5%	1/10W (C610)
R626	1-216-089-00	METAL GLAZE	47K	5%	1/10W (C610RDS)
R651	1-216-107-00	METAL CHIP	270K	5%	1/10W
R652	1-216-119-00	METAL CHIP	820K	5%	1/10W
R653	1-216-097-00	METAL GLAZE	100K	5%	1/10W (C610)
R654	1-216-105-00	METAL GLAZE	220K	5%	1/10W (C610)
R655	1-216-081-00	METAL CHIP	22K	5%	1/10W (C610RDS)
R656	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R657	1-216-089-00	METAL GLAZE	47K	5%	1/10W (C610RDS)
R710	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R711	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R712	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R718	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R721	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R724	1-216-109-00	METAL CHIP	330K	5%	1/10W
R728	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R729	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R731	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R732	1-239-444-11	NETWORK RESISTOR (CHIP)			220K
R751	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R752	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R753	1-216-073-00	METAL CHIP	10K	5%	1/10W
R754	1-216-025-00	METAL GLAZE	100	5%	1/10W
R755	1-216-809-11	METAL CHIP	100	5%	1/16W
R756	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R757	1-216-017-00	METAL GLAZE	47	5%	1/10W
R758	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R759	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R761	1-216-033-00	METAL GLAZE	220	5%	1/10W
R762	1-216-033-00	METAL GLAZE	220	5%	1/10W
R770	1-216-089-00	METAL GLAZE	47K	5%	1/10W (C610RDS)
R771	1-216-113-00	METAL GLAZE	470K	5%	1/10W (C610)
R904	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R908	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R909	1-216-073-00	METAL CHIP	10K	5%	1/10W
R910	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R911	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R912	1-216-081-00	METAL CHIP	22K	5%	1/10W
R913	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R914	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R915	1-208-462-41	METAL GLAZE	10K	2%	1/10W
R916	1-208-462-41	METAL GLAZE	10K	2%	1/10W
R917	1-216-025-00	METAL GLAZE	100	5%	1/10W
R918	1-216-025-00	METAL GLAZE	100	5%	1/10W
R920	1-216-025-00	METAL GLAZE	100	5%	1/10W
R921	1-216-025-00	METAL GLAZE	100	5%	1/10W
R922	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R923	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R924	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R925	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R927	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R928	1-208-462-41	METAL GLAZE	10K	2%	1/10W
R929	1-208-462-41	METAL GLAZE	10K	2%	1/10W
R930	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R950	1-216-033-00	METAL CHIP	220	5%	1/10W
R951	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R952	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R953	1-216-073-00	METAL CHIP	10K	5%	1/10W
R954	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R955	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R961	1-216-085-00	METAL CHIP	33K	5%	1/10W (C610RDS)
R962	1-216-091-00	METAL CHIP	56K	5%	1/10W (C610RDS)

< VARIABLE RESISTOR >

RV651	1-238-716-11	RES, ADJ, METAL GLAZE 100K (C610RDS)

< SWITCH >

SW701	1-571-478-11	SWITCH, SLIDE (POWER SEL)
SW901	1-692-431-21	SWITCH, TACTILE (RESET)

< TUNER >

TU1	A-3282-012-A	TUNER UNIT (TUX-006(E))

Ref. No.	Part No.	Description	Remark
		< VIBRATOR >	
X1	1-577-126-51	VIBRATOR, CRYSTAL (7.2MHz)	
X401	1-579-280-31	VIBRATOR, CRYSTAL (16.9344MHz)	
X501	1-760-556-11	VIBRATOR, CRYSTAL (4.332MHz) (C610RDS)	
X601	1-579-952-21	VIBRATOR, CERAMIC (8MHz)	
X701	1-760-489-11	VIBRATOR, CERAMIC (5MHz)	
X702	1-579-886-21	VIBRATOR, CRYSTAL (32.768KHz)	

9-923-478-81

Sony Corporation
Personal & Mobile Communication Company

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CDX-C610/C610RDS

SONY

SERVICE MANUAL

US Model
Canadian Model
CDX-C610
AEP Model
UK Model
CDX-C610RDS

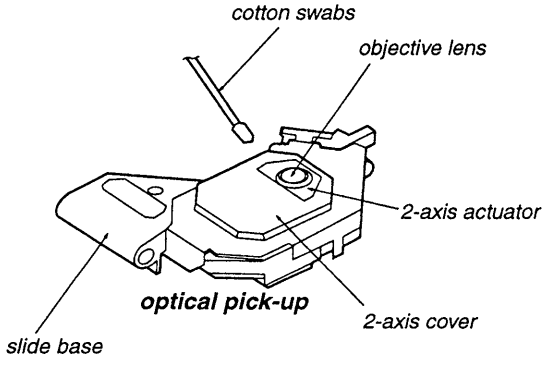
SUPPLEMENT-2

File this supplement with the service manual.

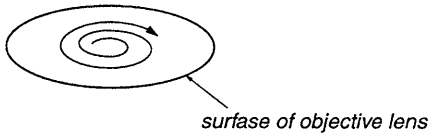
Subject:
Notes on Cleaning The Objective Lens
Change of Main Board

(ECN-CS602634)

NOTES ON CLEANING THE OBJECTIVE LENS



Apply CD lens cleaner B-4 (Part No.: J-2501-000-A) to cotton swabs (narrow type) (Part No.: J-2501-023-A) to be lightly wet. Use a force (about 5 g (0.18 oz)) to make the objective lens in contact with the bottom lightly, and clean the lens by spirals as following below.
Replace the cotton swab and repeat this cleaning two or three times.



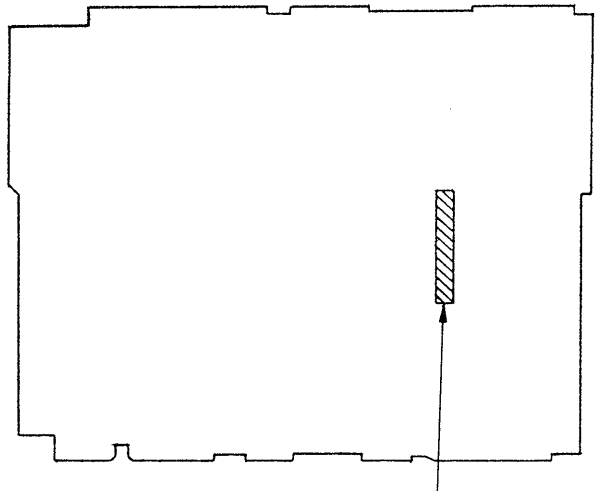
Notes:
Do not force to push the objective lens. Otherwise, the plate spring supporting the objective lens will be bent, causing a deteriorated RF waveform.
Never touch anything other than the objective lens. Otherwise, a significant deterioration occurs in the RF waveform.

CHANGE OF MAIN BOARD

MAIN board has been modified in the middle of production. This supplement-2 contains the printed wiring board, the schematic diagram and the electrical parts list for the new type.

- **New/Former Discrimnation**

[MAIN BOARD] (Component Side)



1-660-941-13 or -14

MAIN

1. ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Abbreviation
  G:German
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	A-3309-109-A	MAIN BOARD, COMPLETE (C610RDS:AEP,UK)			
*	A-3309-166-A	MAIN BOARD, COMPLETE (C610RDS:G)			
*	A-3309-168-A	MAIN BOARD, COMPLETE (C610)			
		**********			
*	3-932-893-01	BRACKET (IC)			
*	3-932-909-01	SINK (IC), HEAT			
		< CAPACITOR >			
C1	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C2	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C4	1-124-589-11	ELECT	47uF	20%	16V
C5	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C6	1-136-159-00	FILM	0.033uF	5%	50V (C610RDS)
C6	1-136-169-00	FILM	0.22uF	5%	50V (C610)
C7	1-104-679-11	MYLAR	0.0022uF	5%	50V (C610RDS)
C7	1-115-326-91	FILM	0.1uF	5%	50V (C610)
C8	1-104-683-11	MYLAR	0.0047uF	5%	50V (C610RDS)
C9	1-136-227-11	MYLAR	0.001uF	5%	50V (C610RDS)
C10	1-115-326-91	FILM	0.1uF	5%	50V (C610RDS)
C11	1-136-169-00	FILM	0.22uF	5%	50V (C610RDS)
C12	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C13	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C14	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C15	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C16	1-163-007-11	CERAMIC CHIP	680PF	10%	50V (C610RDS)
C16	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V (C610)
C17	1-124-589-11	ELECT	47uF	20%	16V
C18	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C19	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C20	1-126-933-11	ELECT	100uF	20%	10V
C21	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C22	1-126-933-11	ELECT	100uF	20%	10V
C23	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C24	1-126-933-11	ELECT	100uF	20%	10V
C25	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C32	1-164-346-11	CERAMIC CHIP	1uF		16V
C33	1-124-455-00	ELECT	100uF	20%	16V
C37	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V (C610)
C38	1-124-234-00	ELECT	22uF	20%	16V
C39	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C51	1-164-344-11	CERAMIC CHIP	0.068uF	10%	25V (C610RDS)
C51	1-164-343-11	CERAMIC CHIP	0.056uF	10%	25V (C610)
C52	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C53	1-107-682-11	CERAMIC CHIP	1uF	10%	16V
C55	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V (C610RDS:G)
C55	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V (C610RDS:AEP,UK)
C55	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V (C610)
C59	1-107-682-11	CERAMIC CHIP	1uF	10%	16V
C63	1-107-682-11	CERAMIC CHIP	1uF	10%	16V
C65	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V (C610RDS:G)
C65	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V (C610RDS:AEP,UK)
C65	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V (C610)
C69	1-107-682-11	CERAMIC CHIP	1uF	10%	16V
C102	1-126-161-11	ELECT	2.2uF	20%	50V
C103	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C105	1-163-063-00	CERAMIC CHIP	0.022uF	10%	50V
C106	1-124-257-00	ELECT	2.2uF	20%	50V
C107	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C108	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C109	1-104-946-11	ELECT	10uF	20%	35V

Ref. No.	Part No.	Description			Remark
C110	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C111	1-104-946-11	ELECT	10uF	20%	35V
C112	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C113	1-104-951-11	ELECT	10uF	20%	16V
C114	1-104-951-11	ELECT	10uF	20%	16V
C122	1-126-161-11	ELECT	2.2uF	20%	50V
C123	1-126-161-11	ELECT	2.2uF	20%	50V
C124	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C125	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C126	1-115-326-91	FILM	0.1uF	5%	50V
C127	1-115-326-91	FILM	0.1uF	5%	50V
C128	1-115-326-91	FILM	0.1uF	5%	50V
C129	1-115-326-91	FILM	0.1uF	5%	50V
C130	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C131	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C132	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C202	1-126-161-11	ELECT	2.2uF	20%	50V
C203	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C205	1-163-063-00	CERAMIC CHIP	0.022uF	10%	50V
C206	1-124-257-00	ELECT	2.2uF	20%	50V
C207	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C208	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C209	1-104-946-11	ELECT	10uF	20%	35V
C210	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C211	1-104-946-11	ELECT	10uF	20%	35V
C212	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C213	1-104-951-11	ELECT	10uF	20%	16V
C214	1-104-951-11	ELECT	10uF	20%	16V
C222	1-126-161-11	ELECT	2.2uF	20%	50V
C223	1-126-161-11	ELECT	2.2uF	20%	50V
C224	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C225	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C226	1-115-326-91	FILM	0.1uF	5%	50V
C227	1-115-326-91	FILM	0.1uF	5%	50V
C228	1-115-326-91	FILM	0.1uF	5%	50V
C229	1-115-326-91	FILM	0.1uF	5%	50V
C230	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C231	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C232	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C301	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C302	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C303	1-126-277-11	ELECT	100uF	20%	10V
C304	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C305	1-107-889-11	ELECT	220uF	20%	10V
C306	1-124-234-00	ELECT	22uF	20%	16V
C307	1-164-346-11	CERAMIC CHIP	1uF		16V
C311	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C312	1-126-163-11	ELECT	4.7uF	20%	50V
C313	1-124-257-00	ELECT	2.2uF	20%	50V

Ref. No.	Part No.	Description			Remark
C318	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C320	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C321	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C322	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C324	1-115-469-21	CAPACITOR	4700uF		16V
C325	1-115-326-91	FILM	0.1uF	5%	50V
C327	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C328	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C329	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C330	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C331	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C350	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C351	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C402	1-104-952-11	ELECT	22uF	20%	16V
C404	1-104-952-11	ELECT	22uF	20%	16V
C405	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C406	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C407	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C408	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C409	1-128-428-11	ELECT	10uF	20%	35V
C410	1-128-428-11	ELECT	10uF	20%	35V
C411	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C412	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C413	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C414	1-163-215-00	CERAMIC CHIP	0.0027uF	5%	50V
C415	1-163-193-00	CERAMIC CHIP	330PF	5%	50V
C416	1-163-215-00	CERAMIC CHIP	0.0027uF	5%	50V
C417	1-163-193-00	CERAMIC CHIP	330PF	5%	50V
C418	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C419	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C420	1-128-428-11	ELECT	10uF	20%	35V
C422	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V (C610)
C423	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (C610)
C424	1-104-945-11	ELECT	4.7uF	20%	35V
C425	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C426	1-165-128-11	CERAMIC CHIP	0.22uF		50V
C427	1-165-128-11	CERAMIC CHIP	0.22uF		50V
C451	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C452	1-124-455-00	ELECT	100uF	20%	16V
C453	1-124-455-00	ELECT	100uF	20%	16V
C454	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C455	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C458	1-126-277-11	ELECT	100uF	20%	10V
C501	1-163-127-00	CERAMIC CHIP	270PF	5%	50V (C610RDS)
C502	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (C610RDS)
C503	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (C610RDS)

MAIN

Ref. No.	Part No.	Description		Remark
C504	1-163-038-00	CERAMIC CHIP 0.1uF		25V (C610RDS)
C505	1-163-989-11	CERAMIC CHIP 0.033uF	10%	25V (C610RDS)
C506	1-126-157-11	ELECT 10uF	20%	16V (C610RDS)
C507	1-164-232-11	CERAMIC CHIP 0.01uF		50V (C610RDS)
C508	1-163-237-11	CERAMIC CHIP 27PF	5%	50V (C610RDS)
C509	1-163-237-11	CERAMIC CHIP 27PF	5%	50V (C610RDS)
C601	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C602	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C603	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C604	1-163-063-00	CERAMIC CHIP 0.022uF	10%	50V
C607	1-126-154-11	ELECT 47uF	20%	6.3V
C608	1-163-037-11	CERAMIC CHIP 0.022uF	10%	25V
C610	1-165-319-11	CERAMIC CHIP 0.1uF		50V
C651	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C652	1-164-161-11	CERAMIC CHIP 0.0022uF	10%	100V
C701	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C702	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C703	1-126-154-11	ELECT 47uF	20%	6.3V
C704	1-163-229-11	CERAMIC CHIP 12PF	5%	50V
C705	1-163-229-11	CERAMIC CHIP 12PF	5%	50V
C706	1-163-037-11	CERAMIC CHIP 0.022uF	10%	25V
C751	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C752	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C770	1-164-505-11	CERAMIC CHIP 2.2uF		16V (C610)
C771	1-163-038-00	CERAMIC CHIP 0.1uF		25V (C610)
C901	1-164-505-11	CERAMIC CHIP 2.2uF		16V
C902	1-126-157-11	ELECT 10uF	20%	16V
C903	1-163-037-11	CERAMIC CHIP 0.022uF	10%	25V
C904	1-126-157-11	ELECT 10uF	20%	16V
C905	1-164-232-11	CERAMIC CHIP 0.01uF		50V
C906	1-126-157-11	ELECT 10uF	20%	16V
C907	1-164-222-11	CERAMIC CHIP 0.22uF		25V
C908	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C910	1-126-163-11	ELECT 4.7uF	20%	50V
C911	1-126-301-11	ELECT 1uF	20%	50V
C912	1-125-701-11	CAPACITOR 0.047uF		5.5V
C913	1-124-455-00	ELECT 100uF	20%	16V
C914	1-164-004-11	CERAMIC CHIP 0.1uF	10%	25V
C915	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C951	1-163-037-11	CERAMIC CHIP 0.022uF	10%	25V
C952	1-163-037-11	CERAMIC CHIP 0.022uF	10%	25V
C954	1-164-344-11	CERAMIC CHIP 0.068uF	10%	25V (C610RDS)

Ref. No.	Part No.	Description	Remark
		< CONNECTOR/JACK >	
CNJ502	1-764-808-11	JACK (ANT IN) (C610)	
CNJ502	1-770-279-11	JACK, ANTENNA (ISO) (ANT IN) (C610RDS)	
CNJ901	1-566-822-41	JACK (REMOTE IN)	
CNP301	1-774-701-11	PIN, CONNECTOR 16P)	
CNP302	1-774-700-11	JACK, PIN 6P (BUS AUDIO IN/LINE OUT)	
CNP504	1-764-617-12	PIN, CONNECTOR (PC BOARD) 30P	
CNP751	1-580-907-31	PLUG, CONNECTOR	
CNP901	1-764-422-11	PLUG, CONNECTOR 12P	
		< DIODE >	
D1	8-719-981-59	DIODE FC805	
D3	8-719-977-03	DIODE DTZ5.6B	
D4	1-519-504-11	DIODE GAP, DISCHARGE	
D5	8-719-422-97	DIODE MA8091-M	
D50	8-719-421-24	DIODE MA8039-H (C610RDS)	
D301	8-719-421-24	DIODE MA8039-H	
D302	8-719-421-24	DIODE MA8039-H	
D310	8-719-049-38	DIODE 1N5404TU	
D451	8-719-422-97	DIODE MA8091-M	
D452	8-719-977-03	DIODE DTZ5.6B	
D601	8-719-050-86	DIODE 1SS133T-91S	
D701	8-719-404-46	DIODE MA110	
D702	8-719-404-46	DIODE MA110	
D751	8-719-914-43	DIODE DAN202K	
D752	8-719-422-64	DIODE MA8062-M	
D753	8-719-422-64	DIODE MA8062-M	
D754	8-719-977-12	DIODE DTZ6.8B	
D755	8-719-422-64	DIODE MA8062-M	
D760	8-719-422-76	DIODE MA8075-M	
D901	8-719-109-97	DIODE RD6.8ES-B2	
D902	8-719-801-78	DIODE 1SS184	
D904	8-719-977-12	DIODE DTZ6.8B	
D905	8-719-914-44	DIODE DAP202K	
D906	8-719-109-97	DIODE RD6.8ES-B2	
D907	8-719-977-12	DIODE DTZ6.8B	
D908	8-719-109-97	DIODE RD6.8ES-B2	
D909	8-719-109-97	DIODE RD6.8ES-B2	
D910	8-719-109-97	DIODE RD6.8ES-B2	
D911	8-719-109-97	DIODE RD6.8ES-B2	
D912	8-719-109-97	DIODE RD6.8ES-B2	
D914	8-719-109-97	DIODE RD6.8ES-B2	
D915	8-719-109-97	DIODE RD6.8ES-B2	
D916	8-719-404-46	DIODE MA110	
D920	8-719-053-18	DIODE 1SR154-400TE-25	
D921	8-719-053-18	DIODE 1SR154-400TE-25	
D922	8-719-022-90	DIODE MA8160M	

Continued on page 13.

2. PRINTED WIRING BOARD – MAIN Section –

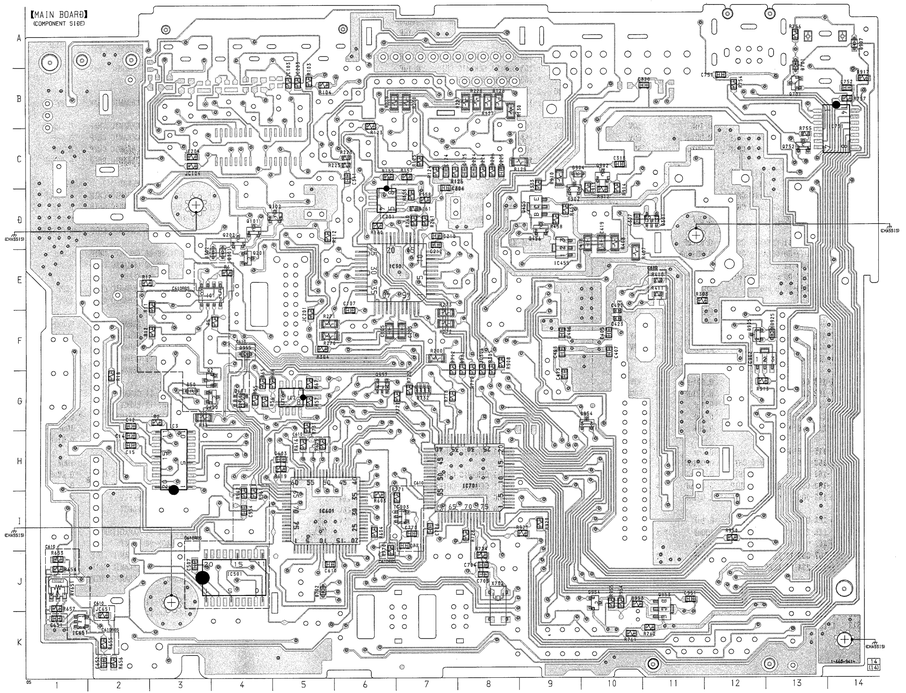
• Semiconductor Location

Ref. No.	Location
D50	G-3
D301	E-4
D302	E-4
D701	A-13
D702	J-5
D902	D-9
D904	C-9
D905	F-12
D907	A-14
D925	F-12
D954	G-10
D955	F-4
IC1	E-4
IC2	G-5
IC3	H-3
IC201	D-6
IC301	E-7
IC455	E-9
IC501	J-4
IC601	I-5
IC651	K-1
IC701	H-8
IC751	C-14
IC902	F-12
IC903	I-7
Q2	G-3
Q101	D-4
Q102	D-4
Q201	E-4
Q202	D-4
Q301	D-11
Q455	D-9
Q456	D-9
Q600	G-3
Q601	G-4
Q701	B-13
Q752	C-13
Q902	C-10
Q953	J-11
Q954	J-10
Q957	G-6

Note:
- ○—— : parts extracted from the conductor side.
- △ : internal component.
- ▒▒ : Pattern from the side which enables seeing.

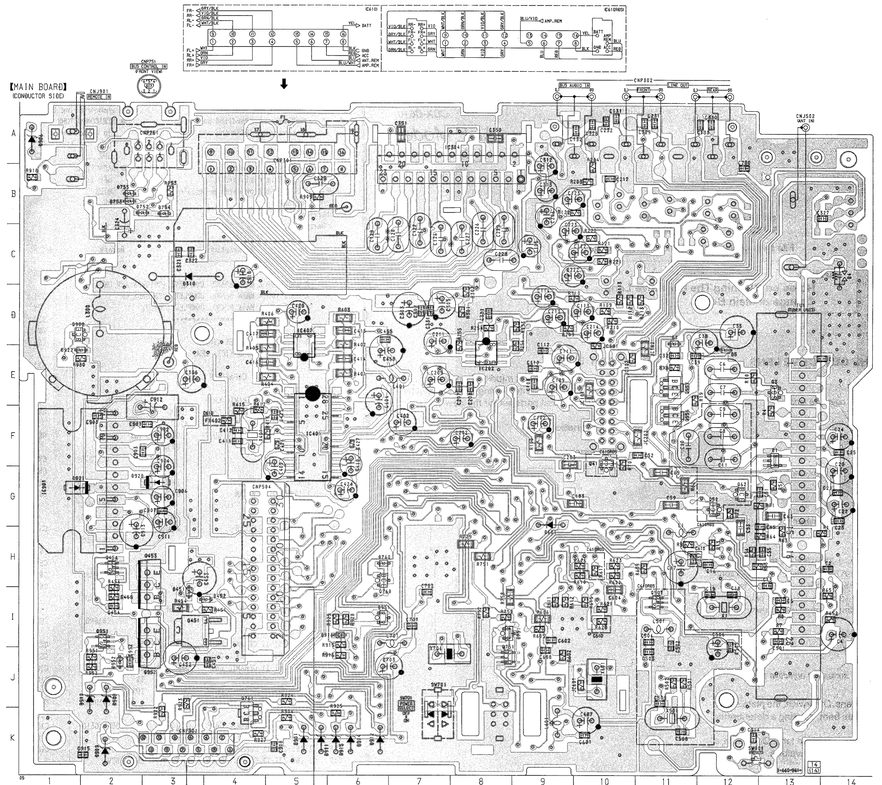
(The other layers' patterns are not indicated.)

Caution:
Pattern face side: (Conductor Side) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side) Parts on the parts face side seen from the parts face are indicated.

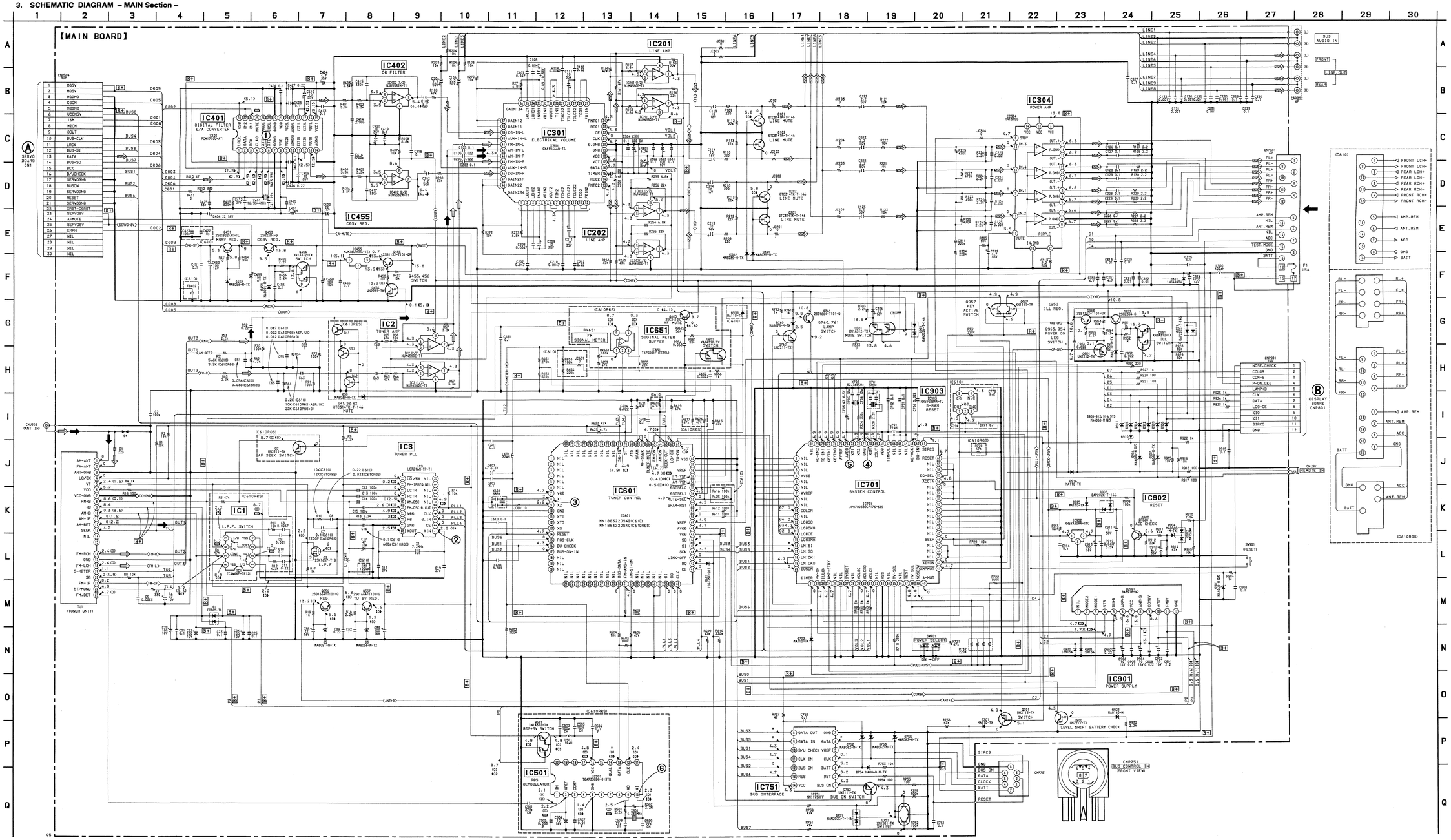


• Semiconductor Location

Ref. No.	Location
D1	F-13
D3	D-11
D4	D-14
D5	E-12
D310	C-3
D451	I-3
D452	I-4
D601	G-9
D751	I-8
D752	B-3
D753	B-2
D754	B-3
D755	B-2
D760	H-6
D901	K-5
D906	A-1
D908	J-2
D909	K-2
D910	J-2
D911	K-5
D912	K-6
D914	K-6
D915	K-6
D916	I-6
D920	G-2
D921	G-1
D922	E-1
D951	I-6
D952	J-2
IC202	E-8
IC304	A-8
IC401	F-5
IC402	D-5
IC901	G-1
Q3	E-13
Q41	F-10
Q52	G-12
Q62	G-12
Q451	I-3
Q453	H-3
Q454	H-2
Q501	I-11
Q556	F-11
Q557	E-11
Q751	J-8
Q760	H-6
Q761	K-4
Q900	D-1
Q951	I-2
Q952	I-3



3. SCHEMATIC DIAGRAM – MAIN Section –



Note:

- All capacitors are in µF unless otherwise noted. pF: µµF
  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- △ : internal component.
- B+ : B+ Line.
- B– : B- Line.
- : panel designation.
- : adjustment for repair.
- Power voltage is dc V and fed with regulated dc power supply from external power voltage jack.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : AM (MW)
  << >> : CD
  * : Impossible to measure
- Voltages are taken with a VOM (10 MΩ/V).
  Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
  ➡ : AM
  ⇛ : CD
- Abbreviation
  G: German

Continued from page 4.

Ref. No.	Part No.	Description	Remark
D925	8-719-404-46	DIODE MA110	
D951	8-719-914-44	DIODE DAP202K	
D952	8-719-423-23	DIODE MA8110-M	
D954	8-719-914-43	DIODE DAN202K	
D955	8-719-404-46	DIODE MA110 (C610)	
		< FERRITE BEAD >	
FB402	1-500-244-21	BEAD, FERRITE (CHIP) (C610)	
		< IC >	
IC1	8-759-242-66	IC TC4W66F (C610RDS)	
IC2	8-759-711-82	IC NJM4580E	
IC3	8-759-823-81	IC LC7216M	
IC201	8-759-711-82	IC NJM4580E	
IC202	8-759-711-82	IC NJM4580E	
IC301	8-752-075-48	IC CXA1946AQ-T6	
IC304	8-759-369-41	IC HA13155	
IC401	8-759-185-27	IC PCM1710U-A	
IC402	8-759-700-94	IC NJM5532M-T1	
IC455	8-759-711-58	IC NJM78L05UA	
IC501	8-759-163-63	IC TDA7330BD-013TR (C610RDS)	
IC601	8-759-428-05	IC MN1883220S4B3 (C610)	
IC601	8-759-399-17	IC MN1883220S4C1 (C610RDS)	
IC651	8-759-075-66	IC TA75S01F (C610RDS)	
IC701	8-759-387-71	IC uPD78058GC-176-3B9	
IC751	8-759-096-16	IC MM1175XFF	
IC901	8-759-347-49	IC BA3918-V2	
IC902	8-759-097-36	IC RH5VA40AA	
IC903	8-759-344-91	IC RN5VD23AA-T1 (C610)	
		< CHIP CONDUCTOR >	
JC101	1-216-296-00	CONDUCTOR, CHIP (3216)	
JC102	1-216-296-00	CONDUCTOR, CHIP (3216)	
JC103	1-216-295-00	CONDUCTOR, CHIP (2012)	
JC104	1-216-295-00	CONDUCTOR, CHIP (2012)	
JC201	1-216-295-00	CONDUCTOR, CHIP (2012)	
JC202	1-216-296-00	CONDUCTOR, CHIP (3216)	
JC203	1-216-295-00	CONDUCTOR, CHIP (2012)	
JC204	1-216-295-00	CONDUCTOR, CHIP (2012)	
JC301	1-216-295-00	CONDUCTOR, CHIP (2012)	
JC302	1-216-295-00	CONDUCTOR, CHIP (2012)	
JC306	1-216-295-00	CONDUCTOR, CHIP (2012)	
JC601	1-216-295-00	CONDUCTOR, CHIP (2012)	
JC651	1-216-295-00	CONDUCTOR, CHIP (2012) (C610)	
		< COIL >	
L1	1-410-973-11	INDUCTOR 22uH	
L300	1-411-670-11	COIL, CHOKE	

Ref. No.	Part No.	Description	Remark
L401	1-410-967-11	INDUCTOR 2.2uH	
L501	1-410-971-11	INDUCTOR 10uH (C610RDS)	
L601	1-410-973-11	INDUCTOR 22uH	
L701	1-410-973-11	INDUCTOR 22uH	
		< TRANSISTOR >	
Q2	8-729-421-22	TRANSISTOR UN2211 (C610RDS)	
Q3	8-729-021-94	TRANSISTOR 2SK1657-T1B	
Q41	8-729-920-21	TRANSISTOR DTC314TKH04 (C610RDS)	
Q52	8-729-920-21	TRANSISTOR DTC314TKH04 (C610RDS)	
Q62	8-729-920-21	TRANSISTOR DTC314TKH04 (C610RDS)	
Q101	8-729-920-21	TRANSISTOR DTC314TKH04	
Q102	8-729-920-21	TRANSISTOR DTC314TKH04	
Q201	8-729-920-21	TRANSISTOR DTC314TKH04	
Q202	8-729-920-21	TRANSISTOR DTC314TKH04	
Q301	8-729-020-67	TRANSISTOR XN1A312-TX	
Q451	8-729-807-12	TRANSISTOR 2SD1802-S	
Q453	8-729-019-00	TRANSISTOR 2SD2394-G	
Q454	8-729-020-67	TRANSISTOR XN1A312-TX	
Q455	8-729-106-60	TRANSISTOR 2SB1115A-YQ	
Q456	8-729-421-22	TRANSISTOR UN2211	
Q501	8-729-020-67	TRANSISTOR XN1A312-TX (C610RDS)	
Q556	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q557	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q600	8-729-120-28	TRANSISTOR 2SC1623-L5L6 (C610RDS)	
Q601	8-729-020-67	TRANSISTOR XA1A312-TX (C610RDS)	
Q701	8-729-424-18	TRANSISTOR UN2113-TX	
Q751	8-729-402-13	TRANSISTOR XN1501	
Q752	8-729-424-08	TRANSISTOR UN2111	
Q760	8-729-421-22	TRANSISTOR UN2211	
Q761	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q900	8-729-421-22	TRANSISTOR UN2211	
Q902	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q951	8-729-020-67	TRANSISTOR XN1A312-TX	
Q952	8-729-019-00	TRANSISTOR 2SD2394-G	
Q953	8-729-106-60	TRANSISTOR 2SB1115A	
Q954	8-729-424-59	TRANSISTOR UN2212	
Q957	8-729-024-31	TRANSISTOR XN1111-TX	
		< RESISTOR >	
R1	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R2	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R4	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R5	1-216-089-00	METAL GLAZE 47K 5% 1/10W	(C610RDS)
R6	1-216-089-00	METAL GLAZE 47K 5% 1/10W	(C610RDS)
R7	1-216-037-00	METAL CHIP 330 5% 1/10W	
R8	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R9	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	

MAIN

Ref. No.	Part No.	Description			Remark
R10	1-216-073-00	METAL CHIP	10K	5%	1/10W (C610)
R10	1-216-075-00	METAL CHIP	12K	5%	1/10W (C610RDS)
R11	1-216-073-00	METAL CHIP	10K	5%	1/10W (C610RDS)
R12	1-216-065-00	METAL CHIP	4.7K	5%	1/10W (C610RDS)
R13	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R14	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R16	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R17	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R18	1-216-029-00	METAL CHIP	150	5%	1/10W
R19	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R51	1-216-061-00	METAL CHIP	3.3K	5%	1/10W (C610RDS)
R51	1-216-067-00	METAL CHIP	5.6K	5%	1/10W (C610)
R53	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R54	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (C610)
R54	1-216-073-00	METAL CHIP	10K	5%	1/10W (C610RDS:AEP, UK)
R54	1-216-081-00	METAL CHIP	22K	5%	1/10W (C610RDS:G)
R55	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R56	1-216-073-00	METAL CHIP	10K	5%	1/10W
R57	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R62	1-216-214-00	METAL CHIP	4.7K	5%	1/8W
R63	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R64	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (C610)
R64	1-216-073-00	METAL CHIP	10K	5%	1/10W (C610RDS:AEP, UK)
R64	1-216-081-00	METAL CHIP	22K	5%	1/10W (C610RDS:G)
R65	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R66	1-216-073-00	METAL CHIP	10K	5%	1/10W
R67	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R70	1-216-097-00	METAL CHIP	100K	5%	1/10W
R71	1-216-097-00	METAL CHIP	100K	5%	1/10W
R72	1-216-097-00	METAL CHIP	100K	5%	1/10W
R100	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R103	1-216-073-00	METAL CHIP	10K	5%	1/10W
R104	1-216-073-00	METAL CHIP	10K	5%	1/10W
R109	1-216-033-00	METAL CHIP	220	5%	1/10W
R110	1-216-033-00	METAL CHIP	220	5%	1/10W
R112	1-216-081-00	METAL CHIP	22K	5%	1/10W
R113	1-216-081-00	METAL CHIP	22K	5%	1/10W
R121	1-216-073-00	METAL CHIP	10K	5%	1/10W
R122	1-216-073-00	METAL CHIP	10K	5%	1/10W
R123	1-216-113-00	METAL CHIP	470K	5%	1/10W
R124	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R125	1-216-113-00	METAL CHIP	470K	5%	1/10W
R126	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R127	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R128	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R129	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R130	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R155	1-216-081-00	METAL CHIP	22K	5%	1/10W
R156	1-216-081-00	METAL CHIP	22K	5%	1/10W
R157	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R158	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R160	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R161	1-216-841-11	METAL CHIP	47K	5%	1/16W
R200	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R203	1-216-073-00	METAL CHIP	10K	5%	1/10W
R204	1-216-073-00	METAL CHIP	10K	5%	1/10W
R209	1-216-033-00	METAL CHIP	220	5%	1/10W
R210	1-216-033-00	METAL CHIP	220	5%	1/10W
R212	1-216-081-00	METAL CHIP	22K	5%	1/10W
R213	1-216-081-00	METAL CHIP	22K	5%	1/10W
R221	1-216-073-00	METAL CHIP	10K	5%	1/10W
R222	1-216-073-00	METAL CHIP	10K	5%	1/10W
R223	1-216-853-11	METAL CHIP	470K	5%	1/16W
R224	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R225	1-216-853-11	METAL CHIP	470K	5%	1/16W
R226	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R227	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R228	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R229	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R230	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R253	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R254	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R255	1-216-081-00	METAL CHIP	22K	5%	1/10W
R256	1-216-081-00	METAL CHIP	22K	5%	1/10W
R260	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R261	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R270	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R271	1-216-218-00	METAL GLAZE	6.8K	5%	1/8W
R272	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R273	1-216-218-00	METAL GLAZE	6.8K	5%	1/8W
R301	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R302	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R303	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R304	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R305	1-216-073-00	METAL CHIP	10K	5%	1/10W
R333	1-216-295-00	CONDUCTOR, CHIP	(2012)		
R401	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R402	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R403	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R404	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R405	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R406	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R407	1-216-222-00	METAL GLAZE	10K	5%	1/8W

Ref. No.	Part No.	Description			Remark
R408	1-216-218-00	METAL GLAZE	6.8K	5%	1/8W
R410	1-216-805-11	METAL CHIP	47	5%	1/16W
R411	1-216-864-11	METAL CHIP	0	5%	1/16W
R412	1-216-037-00	METAL CHIP	330	5%	1/10W
R413	1-216-037-00	METAL CHIP	330	5%	1/10W
R415	1-216-119-00	METAL CHIP	820K	5%	1/10W
R451	1-216-295-00	CONDUCTOR, CHIP	(2012)		
R454	1-216-186-00	METAL GLAZE	330	5%	1/8W
R455	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R456	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R457	1-216-073-00	METAL CHIP	10K	5%	1/10W
R458	1-216-073-00	METAL CHIP	10K	5%	1/10W
R501	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (C610RDS)
R502	1-216-129-00	METAL CHIP	2.2M	5%	1/10W (C610RDS)
R602	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R603	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R604	1-216-073-00	METAL CHIP	10K	5%	1/10W
R605	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R606	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R609	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R610	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R611	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R612	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R615	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R616	1-216-097-00	METAL GLAZE	100K	5%	1/10W (C610)
R617	1-216-089-00	METAL GLAZE	47K	5%	1/10W (C610RDS)
R619	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R620	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R621	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R622	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R623	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R625	1-216-097-00	METAL GLAZE	100K	5%	1/10W (C610)
R626	1-216-089-00	METAL GLAZE	47K	5%	1/10W (C610RDS)
R651	1-216-107-00	METAL CHIP	270K	5%	1/10W
R652	1-216-119-00	METAL CHIP	820K	5%	1/10W
R653	1-216-097-00	METAL GLAZE	100K	5%	1/10W (C610)
R654	1-216-105-00	METAL GLAZE	220K	5%	1/10W (C610)
R655	1-216-081-00	METAL CHIP	22K	5%	1/10W (C610RDS)
R656	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R657	1-216-089-00	METAL GLAZE	47K	5%	1/10W (C610RDS)
R710	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R711	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R712	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R718	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R721	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R722	1-216-097-00	METAL CHIP	100K	5%	1/10W
R724	1-216-109-00	METAL CHIP	330K	5%	1/10W
R728	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R729	1-216-246-00	METAL GLAZE	100K	5%	1/8W

Ref. No.	Part No.	Description			Remark
R731	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R732	1-239-444-11	NETWORK RESISTOR (CHIP)	220K		
R751	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R752	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R753	1-216-073-00	METAL CHIP	10K	5%	1/10W
R754	1-216-025-00	METAL GLAZE	100	5%	1/10W
R755	1-216-809-11	METAL CHIP	100	5%	1/16W
R756	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R757	1-216-017-00	METAL GLAZE	47	5%	1/10W
R758	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R759	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R761	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R762	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R770	1-216-089-00	METAL GLAZE	47K	5%	1/10W (C610RDS)
R771	1-216-113-00	METAL GLAZE	470K	5%	1/10W (C610)
R904	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R908	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R909	1-216-073-00	METAL CHIP	10K	5%	1/10W
R910	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R911	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R912	1-216-081-00	METAL CHIP	22K	5%	1/10W
R913	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R914	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R915	1-208-462-41	METAL GLAZE	10K	2%	1/10W
R916	1-208-462-41	METAL GLAZE	10K	2%	1/10W
R917	1-216-025-00	METAL GLAZE	100	5%	1/10W
R918	1-216-025-00	METAL GLAZE	100	5%	1/10W
R920	1-216-025-00	METAL GLAZE	100	5%	1/10W
R921	1-216-025-00	METAL GLAZE	100	5%	1/10W
R922	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R923	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R924	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R925	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R927	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R928	1-208-462-41	METAL GLAZE	10K	2%	1/10W
R929	1-208-462-41	METAL GLAZE	10K	2%	1/10W
R930	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R950	1-216-033-00	METAL CHIP	220	5%	1/10W
R951	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R952	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R953	1-216-073-00	METAL CHIP	10K	5%	1/10W
R954	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R955	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R961	1-216-085-00	METAL CHIP	33K	5%	1/10W (C610RDS)
R962	1-216-091-00	METAL CHIP	56K	5%	1/10W (C610RDS)

< VARIABLE RESISTOR >

RV651	1-238-716-11	RES, ADJ, METAL GLAZE	100K		(C610RDS)

MAIN

Ref. No.	Part No.	Description	Remark
		< SWITCH >	
SW701	1-571-478-11	SWITCH, SLIDE (POWER SEL)	
SW901	1-692-431-21	SWITCH, TACTILE (RESET)	
		< TUNER >	
TU1	A-3282-012-A	TUNER UNIT (TUX-006(E))	
		< VIBRATOR >	
X1	1-577-126-51	VIBRATOR, CRYSTAL (7.2MHz)	
X401	1-579-280-31	VIBRATOR, CRYSTAL (16.9344MHz)	
X501	1-760-556-11	VIBRATOR, CRYSTAL (4.332MHz)	(C610RDS)
X601	1-579-952-21	VIBRATOR, CERAMIC (8MHz)	
X701	1-760-489-11	VIBRATOR, CERAMIC (5MHz)	
X702	1-579-886-21	VIBRATOR, CRYSTAL (32.768KHz)	

9-923-478-82

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CDX-C610/C610RDS

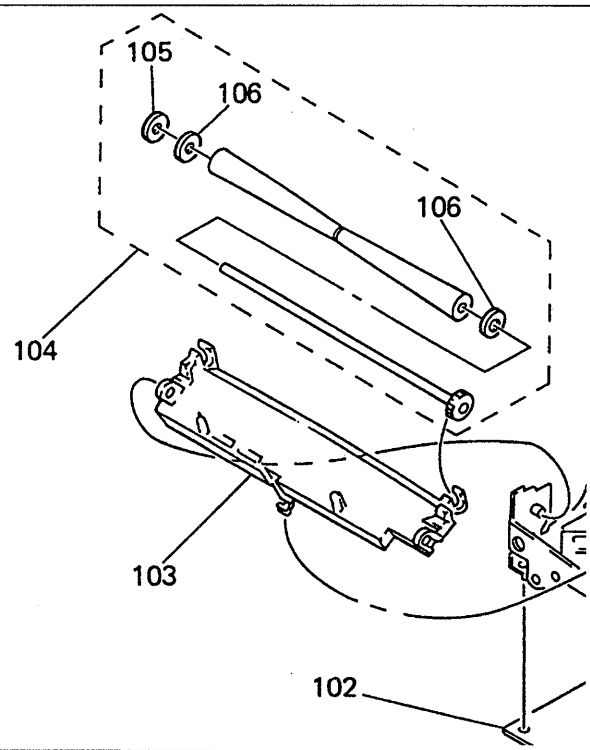
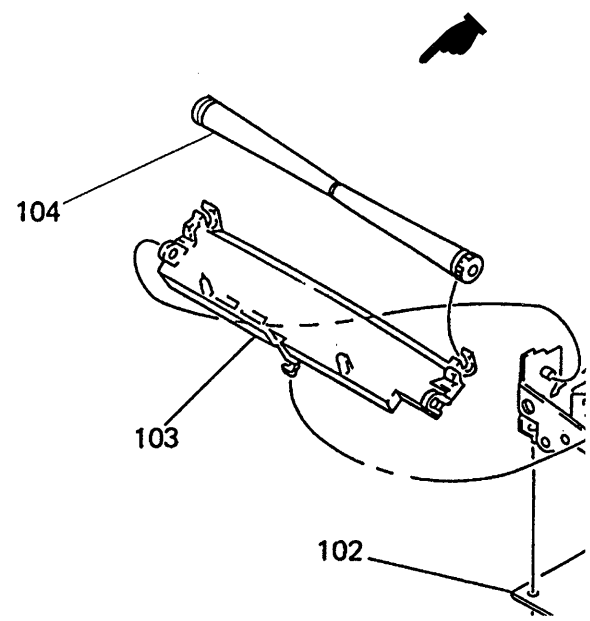
SONY
SERVICE MANUAL

US Model
Canadian Model
CDX-C610
AEP Model
UK Model
CDX-C610RDS

CORRECTION-1

Correct your service manual as shown below.

☛ : indicates corrected portion.

Page	INCORRECT			CORRECT		
	No.	Part No.	Description	No.	Part No.	Description
48	105	3-701-439-11	WASHER			
	*106	3-322-413-01	SPACER, INSULATING			
						

(SPM-96051)

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